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OIL WORLD

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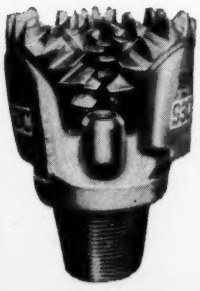

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2. "STROKE"U DEĞİŞTİRİRKEN KRANK PİMİ DELİKLERİNİN İYİCE TEMİZLENMESİNE DİKKAT ET.
3. MUVAZENE AĞIRLIĞINI İLÂVE EDERKEN YOLLARI VE YARIKLARI TEMİZLE. MUVAZENE AĞIRLIĞININ EMNİYET PARÇASINI İHTİVA EDEN UCU KRANKIN UZUN UCUNA DOĞRU OLMALIDIR.
4. ÇALIŞTIRMAĞA BAŞLAMADAN EVVEL MAKARA VE FREN KAMALARI İLE KRANK PİMİ SOMUNLARINI İYİCE SIKIŞTIR.
5. ANİ FREN YAPMA. KUVVETİ TEDRİCEN ARTTIRARAK FREN YAP.

### YAĞLAMA

KÜKÜRT VEYA KÜKÜRT MÜREKKEPLERİNİ İHTİVA EDEN YAĞLARI KULLANMA.

"PITMAN" KARNK KOLU: VİTES KUTUSU İÇİN KULLANILAN YAGIN AYNINI KULLAN. YAĞI KAPAK ÜZERİNDE YAĞ SEVİYESİNİ GÖSTEREN TAPA HİZASINA KADAR DOLDUR. FAZLA YAĞ SIZINTILARA SEBEBİYET VERİR. YAĞI HAFTADA BİR KONTROL ET VE ALTI AYDA BİR DEĞİŞTİR.

MERKEZ RULMANI, ASKI, VE TEVZİN RULMANLARI: YÜKSEK TAZYİKLERE DAYANAN VE AKMA NOKTASI - 15 DERECE C OLAN SAE 140 NUMARALI BİR YAĞ KULLAN. MERKEZ RULMANINI İKİ UCUNDAKİ TAPALARI SÜKMEK SURETİYLE DOLDUR. ASKI VE TEVZİN RULMANLARINI BLOF YERLERİNDEN YAĞ TAŞINCAYA KADAR DOLDUR. YAĞI HAFTADA BİR KONTROL ET VE ALTI AYDA BİR DEĞİŞTİR. YEDEK PARÇA ISMARLARKEN E'BAT, SERİ NUMARASI VE SİPARİŞ NUMARASINI BİLDİR.

## "talking turkey"

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May 15th, 1957

# Technical Papers Featured Pacific Coast A.P.I. Spring Meeting

Drilling and production problems were treated by technical papers and discussions at the two-day Annual Spring Meeting of the Pacific Coast District, Division of Production, American Petroleum Institute, held at the Biltmore Hotel in Los Angeles on May 16 and 17, 1957.

Following the awarding of "Citations for Service" by D. L. Connelly, Vice President of Warren Petroleum Corporation and Vice President, Division of Production, American Petroleum Institute, at the Annual Banquet on Thursday evening, May 16, Bill Henry, noted radio and television commentator and Washington Columnist for the Los Angeles Times addressed the session on the subject of "Keeping an Eye on Washington."

George L. Laurent, Standard Oil Company of California, General Chairman for Annual Meeting Pacific Coast District, American Petroleum Institute Division of Production.

Earlier in the day the management address was delivered by Kenneth E. Hill, Vice President of The Chase Manhattan Bank, New York, on the subject of "The Outlook for the Pacific Coast Petroleum Industry." The paper was co-authored by Mr. Hill and John G. Winger, Petroleum Economist of that Bank.

Frank T. Lloyd of Richfield Oil Corporation was Chairman of the Pacific Coast District and George L. Laurent of Standard Oil Company of California was General Chairman for the 1957 Spring Meeting.

Raymond A. Malott of Shell Oil Company, Chairman of the Drilling Sessions Program, announced the following papers which were scheduled for the drilling sessions:

"Classification of Blowout Prevention Equipment and Practices" by K. M. Nicolson of Standard Oil Company of California, Western Operations, Inc.

"Contractors' Plans and Hopes for the Future" by John S. Hagestad of John S. Hagestad Drilling Company.

"Drilling Costs in California" by R. C. Sharp, Vice President of the American Association of Oilwell Drilling Contractors, and J. J. LaBouff of Signal Oil and Gas Company.

"Operational Procedures in Drilling From Offshore Floating Barges" by C. R. Ball, Jr., of Richfield Oil Corporation.

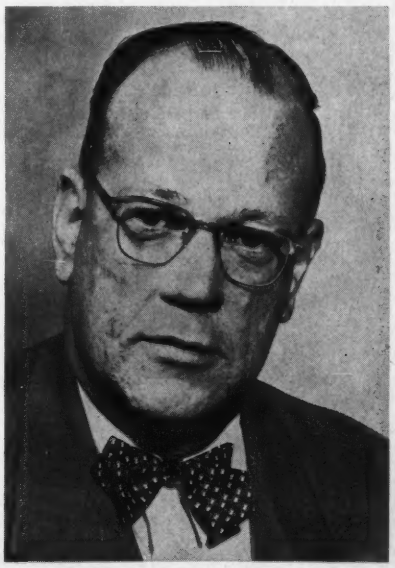
"Underwater Television" by D. M. Ward of Ward Associates, San Diego.

"Weather and Wave Forecasting for California Offshore Operations" by Paul Horrer, Dean Blake and James Faughn, of Marine Advisers, La Jolla.

"Pressure Differential Sticking of Drill Pipe and How It Can Be Avoided or Relieved" by W. E. Helmick and A. J. Longley of Shell Oil Company.

James T. Carriel of Signal Oil and Gas Company, Chairman of the Production Sessions Program, announced the following papers which were scheduled for the production sessions.

"Corrosion Treatment in Pumping



Frank T. Lloyd, Richfield Oil Corp., Chairman, Pacific Coast District American Petroleum Institute Division of Production.

Wells" by T. A. Bertness of General Petroleum Corporation.

"Cathodic Protection of Casing—Ventura Field" by A. W. Kerr of Shell Oil Company.

"Multiple Packers for Selective Injection" by L. V. Gefvert, R. O. Chamberlain and C. E. Wakefield, Jr., of Richfield Oil Corporation.

"South Coles Levee Unit Cycling Project" by W. C. Sheldon and J. H. Sutton of The Ohio Oil Company.

"Engineering Mehods for Calculating Productivity Indices" by L. L. Handy of California Research Corporation.

"Performance of a Pilot Water Flood—Tar Zone, Fault Block III, Wilmington Field" by C. C. Horace of Union Pacific Railroad Company.

"A Nomographic Method for Predicting Reservoir Performance" by Commander Ira Dye, U. S. Navy, currently stationed with Union Oil Company of California, Research Division.

Registration began Thursday morning at 8:00 A.M. without charge.

## Ajax Oil Opens New Texas Office

Ajax Oil and Development Company of Encino, actively engaged in petroleum development in California, Colorado, Texas, Nebraska and Kansas, announces the removal of its Mid-Continent office from Wichita Falls, Texas, to the Trans American Life Building in Fort Worth. E. R. Stewart is in charge of that area.

The company, which also maintains offices in New York City and Brush, Colorado, has many interesting drilling jobs under way in many parts of the country.

In the Torrance field, southwest of metropolitan Los Angeles, Ajax has taken over the old Century Oil Company Smith lease well in Lot 76, Section 23-4s-14w. Present plans call for taking the well on down from 4800 feet to some 5500 feet for a test of the Lower Del Amo sands.

Concrete drilling mud has been laid and if the deepening work is successful in finding the zone commercially productive, other leases held can be drilled by whipstock from the same location.

Followup operations to the company's profitable wildcat drilling last fall in Knox and Baylor Counties, Texas, is about half completed and so far has accounted for an output of approximately 8000 barrels a month. Development drilling is being continued.

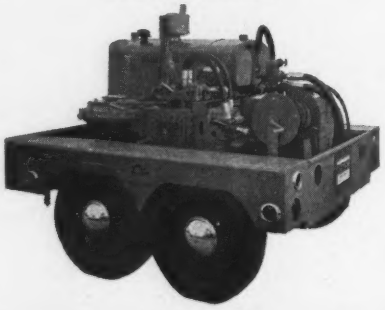
Principals of the organization are Roy and Phyllis Mork and Art Quackenboss.

## Hancock Oil Gains Bolivian Land

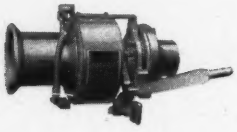
An imposing group of subsidiaries of Hancock Oil Company, Pure Oil Company and Standard Oil Company of Ohio has been awarded exploitation concessions totaling 1,232,000 acres or more than 1900 square miles by the Bolivian government. Each company will have an interest of one-third in the scheduled joint venture work, notwithstanding the fact the award was nominally made to the Andes Oil Company, Inc., wholly-owned subsidiary of Pure Oil. Last summer these three organizations were associated in a successful bid for an important concession in Lake Maracaibo in Venezuela.


SPEED with SAFETY

TUBING TONG



CATHEADS FOR EVERY NEED



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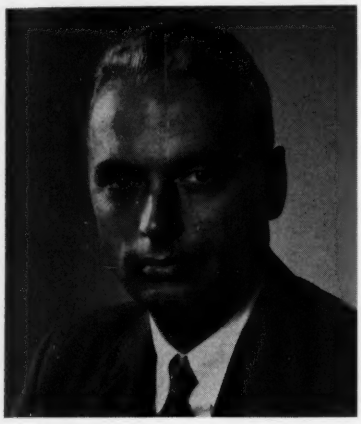
# DU PONT *Petroleum Chemicals* NEWS

One of a Series of Bulletins for the Petroleum Industry

MAY 1957


## NEW DIRECTOR OF SALES FOR PETROLEUM CHEMICALS



W. SAM CARPENTER, III, has been appointed to succeed David H. Conklin as director of sales of the DuPont Petroleum Chemicals Division. Mr. Carpenter was promoted to this position from that of assistant director of sales.

Mr. Conklin has been named managing director of the DuPont Company (United Kingdom) Limited. He plans to make his home in London next year.

Alfred R. Mullis, formerly Eastern regional manager of the Petroleum Chemicals Division, replaces Mr. Carpenter as assistant director of sales.

Mr. Carpenter came to the Petroleum Chemicals Division in 1955 from the Cellulosics Division of the Textile Fibers Department where he was director of manufacturing. Prior to joining Textile Fibers, he had been manager of the DuPont Industrial Engineering Division. He joined the DuPont Company in 1938 as an industrial engineer.

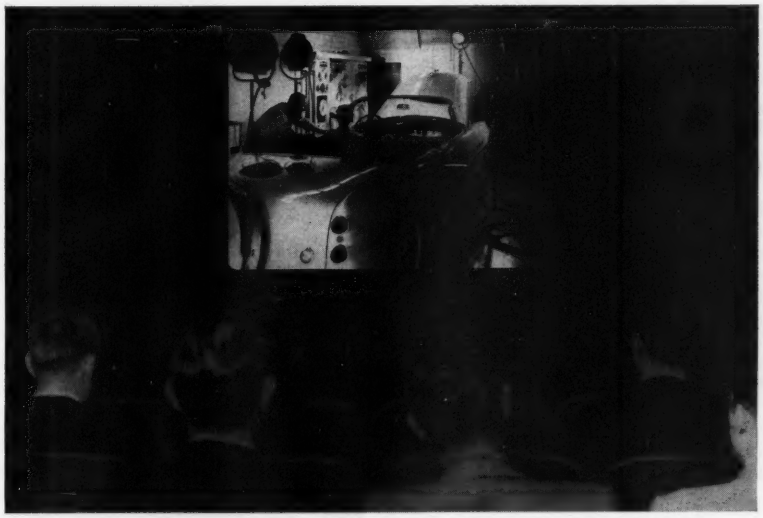
In 1944 and 1945, he was active in the construction and operation of the government's atomic energy project at Hanford, Washington. Mr. Carpenter received his chemical engineering degree from Princeton University.

Mr. Conklin, who came to DuPont as a sales-service representative from Ingersoll-Rand, has been with the Petroleum Chemicals Division since it was organized. He was promoted to West Coast regional manager, then to sales pro-

OVER

# Refiners can use these marketing services profitably

The DuPont Petroleum Chemicals Division offers a wide range of marketing aids and services. Many of these are ideal for dealer meeting programs. Others can be profitably used in promotion campaigns. Here is a brief résumé of the DuPont marketing services now available to you:



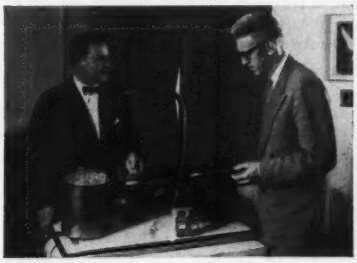
**MOVIES** available from DuPont make ideal program material for your dealer meetings.

*"When the customer says 'KNOCK'"* is a DuPont sponsored, full-color motion picture to instruct dealers on how to handle, in a salesmanlike way, customer complaints about gasoline quality.

This is but one of a series of films. They cover subjects ranging from gasoline quality, just mentioned, to an explanation of the benefits to the public of the percentage depletion allowance. Folders describing these films in detail, along with information on borrowing them, can be obtained from any of our sales offices.

### Special demonstration equipment

To help refiners explain quality features of their products clearly and graphically, we have designed and built a number of special demonstration devices. The latest is a machine for showing how carburetor icing occurs and can be prevented with DuPont dimethyl formamide.



**I. T. Rosenlund** is shown here operating the de-icing demonstration.

This equipment is ideal for pointing up convincingly your product-quality

OVER

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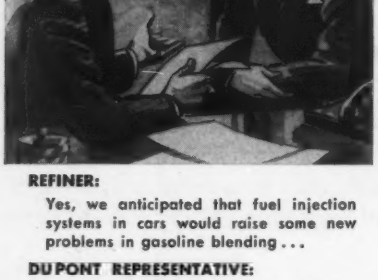
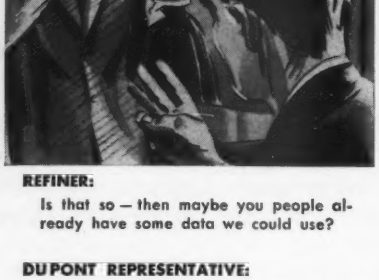
# DUPONT *Petroleum Chemicals* NEWS

## *Du Pont equipment and experience usually available to refiners*



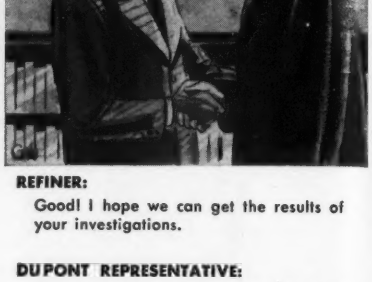
**REFINER:**
Yes, we anticipated that fuel injection systems in cars would raise some new problems in gasoline blending . . .

**DU PONT REPRESENTATIVE:**
That's right, and our Petroleum Laboratory has already been making road tests using special fuels in injection systems.



**REFINER:**
Is that so — then maybe you people already have some data we could use?

**DU PONT REPRESENTATIVE:**
We're accumulating it gradually. We have three fuel-injection cars in our Petroleum Lab.



**REFINER:**
Good! I hope we can get the results of your investigations.

**DU PONT REPRESENTATIVE:**
I'll see that you do. As our road tests develop further facts we'll keep you informed.

CONTINUED

## *Marketing Services*

features to dealer and customer groups.

We can also supply you with a great variety of booklets and visual presentations on gasoline and motor oil quality, customer relations, station services, and other subjects. You can obtain these in large quantities at cost, or at no charge if you'd like only a few copies.

### Continuing market surveys

When planning promotion campaigns, you can make use of the findings of our several extensive surveys of customer buying habits and service station operations.

These cover such subjects as the factors influencing a dealer's success, why motorists buy the brands they do, how they select service stations, and which factors in gasoline-brand advertising influence them most.

A report on our latest — and perhaps most important — survey will be finished by mid-summer. The results will be made available to all marketing executives in the oil industry.

### Public relations aids

Our newest presentation emphasizes the importance, to everyone, of the petroleum industry — "A 'Brief' Case for Business." It is a lightweight kit which enables you to tell a forceful public relations story in a dramatic way. This kit was conceived and developed by DuPont and is made available to oil companies through the Oil Information Committee of API, or through your DuPont representative.

You can probably save time and money by supplementing your own promotion program with these useful aids, adapting them to your own purposes. Any of our Petroleum Chemicals Division representatives or sales offices will be glad to give you more information on them.

*continued middle next column*

**H. C. Thompson** displays the "Brief" case public relations kit.

CONTINUED

## *New Director of Sales*

motion manager, later assistant director and then director of sales.

### Conklin a Navy veteran

During World War II, Mr. Conklin as Commander U. S. Navy, was on active duty 5 years—most of the time in the North Atlantic. He was awarded the Order of the British Empire.

### Mullis former sales representative

Alfred R. Mullis joined the DuPont Company in 1947 as a sales representative in the Gulf Coast Region. He was appointed regional manager there in 1951. The following year he went to New York as Eastern regional manager.

After graduating from Rice Institute with a chemical engineering degree, Mr. Mullis was associated with the Humble Oil and Refining Company in research and development work. While an officer in the Navy from 1942 to 1946, he specialized in petroleum inspection work.

### SALES OFFICES

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**Denver 2**—510 Mile High Center Bldg. . AComa 2-2347
**Houston 2**—
705 Bank of Commerce Bldg. . . . . CApitol 5-1151
**Los Angeles 17**—612 So. Flower St. . MAdison 5-1691
**New York 20**—
1270 Ave. of the Americas . . . . . COlumbus 5-2342
**Philadelphia 2**—3 Penn Center Plaza . . LOcust 8-3531
**Pittsburgh 22**—1 Gateway Center . . . ATlantic 1-2933
**San Francisco 4**—111 Sutter St. . . . . EXbrook 2-6230
**Seattle 3**—4003 Aurora Ave. . . . . MElrose 6977
**Tulsa 1**—1811 So. Baltimore Ave. . . . . LUther 5-5578
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OVER



Printed in U. S. A.

# California Standard Weathers Suez Canal Crisis By New Phases

Resting easier is the petroleum industry over the world now that the perplexing Suez Canal problem is being solved amicably from an economic standpoint.

The California industry deserves a well-earned bow for the manner in which the situation was handled by its own Standard Oil Company.

As Chairman R. G. Follis pointed out the company's weathering of the Suez crisis demonstrated that the firm's long-term diversification program is showing real progress in making Standard "as invulnerable as possible to disaster at any one point."

He added that the company's position will be further strengthened by the replacement of over two barrels of crude oil for each barrel produced in the Western Hemisphere in 1956.

"It has always been apparent that if we had our 'eggs in many baskets' we would be in a stronger position, especially as the loss of one major 'basket' would put stimulus on the need for products from the other sources," he explained.

### Pledge Met

President T. S. Petersen recently stressed the fact that the oil industry more than fulfilled its pledge to supply European petroleum needs during the Suez crisis.

On the late oil price increase, he said their coincidence with the Suez developments were "timely and economically inevitable."

The wave of price increases moving westward across the United States early in the year was explained by Petersen as the result of the abrupt boost in demand for Gulf Coast crude oil.

"But that was only the immediate factor," he said, and added:

"It was inevitable that crude oil prices were in for adjustment, because of the substantial increases that had been taking place in the costs of finding, developing and producing oil in this country." It will be remembered that crude oil prices generally have held firm since 1953.

Petersen was mindful of the fact that charges leveled against the oil industry for alleged failure to meet promises to supply Europe needs had been disproved at special Senate hearings in Washington.

"The closing of the Suez Canal could well have caused a catastrophe in Europe," he declared. "The oil industry, with proper direction from our own Government and the government of western Europe, did even better than the job that was promised."

### Lift Effective

"Actually," Peterson noted, "the petroleum industry's 'oil-lift' to Europe effectively replaced a 1,700,000 barrel-a-day supply of Middle East oil that was cut off in a matter of hours."

He said Europe's oil shortage was relieved primarily by shifting international supply lines, increasing production and finding new petroleum sources to replace old ones.

Standard's role in the Suez crisis was described by the oil executive as being made up basically of redirecting United States-bound crude from Saudi Arabia, Venezuela and Sumatra to Europe, dipping into domestic stocks and beefing up West Coast oil supplies by hiking imports from Canada, Colorado, Wyoming and the southwestern states.

Price increases resulting from comparable realignments elsewhere led Standard "to establish a price structure for crude oil and products that would continue to attract supplies to this area and prevent our existing local supplies from being drained away," Petersen said.

### Venture Capital

Standard has said nothing on the subject, but it is indicated that the company is highly in accord with the Western Oil and Gas Association on offshore drilling in California.

WOGA some months ago pointed up the fact that to realize the maximum potential of offshore lands, the state must attract as much venture capital as possible. Moreover, the association declared, the only way to accomplish this is by following practices which have performed equitably elsewhere, namely the bonus-eighth method.

Any attempted move to drive a harder bargain with wildcat drillers is analyzed by WOGA as inevitably resulting in the move of venture capital to other areas where the leasing patterns are more inviting.

Standard and other members of the association are in accord with leasing provisions covering unproved lands. They are entirely balanced and even-handed. Full recognition is given the gamble involved in oil exploration, particularly in offshore areas.

It has been explained by petroleum economists that the state will get more revenue in the long run out of the bonus-eighth arrangement because it will encourage more total exploration work. The principle involved is the basic one of volume vs. margin, which is common to retailing practice.

Although a sliding royalty will give the state a large share of a relatively small amount of oil developed, the bonus-eighth will assure the state a lesser share of a lot more oil. The bonus plus a flat royalty has historic precedents and it has been the backbone of oil development in the United States.

However, at press time some offshore drillers had suggested new revisions to the bonus royalty plan associated with the coastal waters oil development.

In the Summerland area of Santa Barbara County, where Standard and Humble put up $7,500,000 for a wildcat offshore lease, the former is drilling at 8500 feet with Standard-Humble Core Hole No. 1 on Section 13-4n-26w.

# Personalities IN THE NEWS

## Walter Greenfield Retires from Signal

The retirement of Walter Greenfield, veteran member of Signal Oil and Gas Company management, was announced by Samuel B. Mosher, president of the company. Greenfield, who has served with Signal for twenty-seven years, has been handling joint venture operations for the company since 1955. Before that assignment, he had been manager of the company's crude oil department since 1933.

Walter Greenfield

Mosher lauded Greenfield's long and valuable service to Signal, and noted the outstanding growth the company has experienced since the retiring oilman joined it in 1930. At that time Greenfield was named superintendent of the Elwood lease in Santa Barbara for Seaward Oil Company, a Signal subsidiary. In 1932, Seaward was absorbed by the parent firm.

A pioneer of directional drilling, his oil career began in California in 1921 when he started as a driller for Orange County Drilling Company at the Huntington Beach field. He later was with the Holly Oil Company, and was general superintendent for the J. Oscar Smith operators at the Lawndale boom for two years before joining Signal.

Greenfield, a native of Sugar Grove, Arkansas, studied engineering at the University of Arizona and later at the University of Arkansas. He now resides in Fullerton with his wife. His favorite pastime has pre-determined his retirement plans: frequent and leisurely fishing and hunting trips in his fully-equipped truck and trailer.

---

**The appointment of Irving C. Brown as manager of the Bakersfield refinery has been announced by Standard Oil Company of California, Western Operations, Inc. Brown succeeds L. L. Henning who has been transferred to San Francisco on special assignment.**

**A native of Michigan, Brown joined Standard in July of 1938 as an engineer immediately after his graduation from University of Michigan where he earned a BS degree in chemical engineering. After wartime service at El Segundo he helped pioneer the production of high octane aviation fuels at the company's Richmond refinery. He was named general foreman of the cracking division there in 1947.**

**In June of 1953 he was named assistant superintendent at Richmond and was promoted to superintendent in 1955.**

**Brown is married and the father of four children.**

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As a reminder, Miller & York's Bakersfield new telephone number is Export 9-4471.

**The appointment of Don Prehoda as Sales Engineer in the Los Angeles Basin has been announced by Mr. I. J. McCullough, President, McCullough Tool Company.**

**Prehoda joined the Service Department of McCullough Tool Company in 1949 and prior to his recent appointment served as Assistant Branch Service Manager in the Los Angeles office. Prehoda, a native Californian and a member of the A.P.I., was formerly with Tidewater Oil Company.**

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Occidental Petroleum Corporation of Los Angeles has announced the election to its board of directors of Professor Nico van Wingen. Professor van Wingen is a consulting petroleum engineer and educator of petroleum engineering at the University of Southern California.

---

Signal honors have come to Dave David, son of Shell Oil's E. R. David in the company's exploration party No. 7 in San Joaquin Valley. The younger David was recently chosen as the outstanding senior boy at Chico High School, Chico, California. This selection is based primarily on scholarship, leadership, personality and athletic ability.

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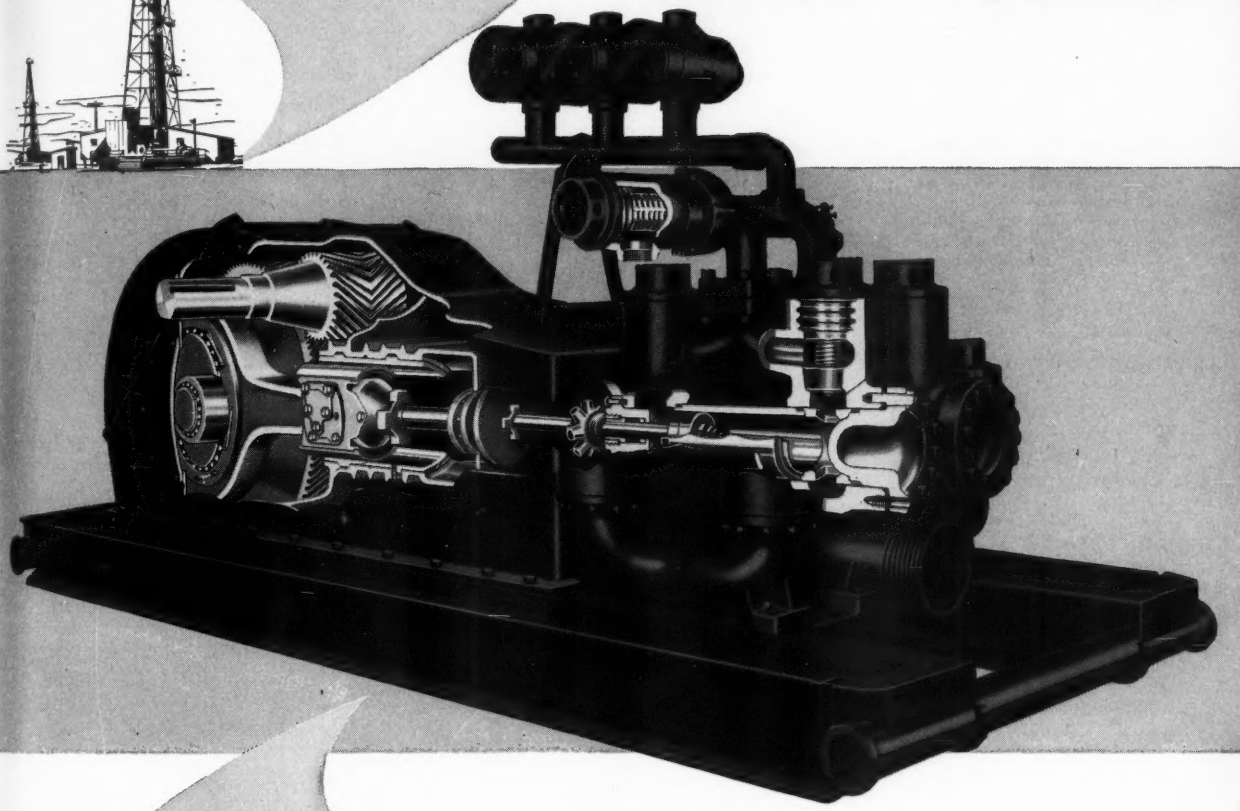

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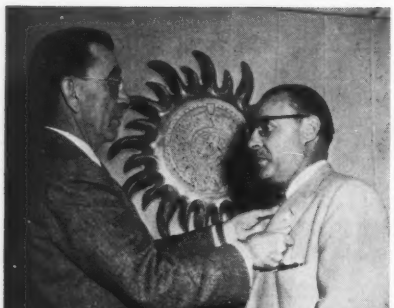

Two big events recently for Halliburton Oil Well Cementing Co.'s J. K. "Ken" Abell, right, were his appointment as manager for subsidiary operations in Argentina, Bolivia, Brazil and Chile operations and presentation of his 20-year service pin. The award was given at Halliburton's Duncan, Okla., headquarters by Ralph R. Emery, left, Vice President for Foreign Operations and Export Sales.

## Halliburton Moves Abell to Argentina

Halliburton Oil Well Cementing Co. announced this week that offices are being opened in Buenos Aires for Halliburton Argentina S. A.

J. K. "Ken" Abell, who has been manager for Cia. Halliburton in Venezuela, is transferring to Buenos Aires to open operations in Argentina, Bolivia, Brazil and Chile.

Native of Kansas, "Ken" Abell takes with him to Argentina a brand-new 20-year Halliburton service pin given to him by Ralph R. Emery, vice president for foreign operations and export sales of the pioneer service company. The 20 years began in April, 1937 at Hutchinson, Kans.

Abell began as a driver and then worked as cementer, acid treater and tester in Kansas, Nebraska, Oklahoma and the Texas Panhandle before moving to Venezuela in 1944. He was promoted to field man in 1946 and a year later transferred to Colombia as manager of Halliburton operations there. He remained there until he returned to Venezuela as manager in 1955.

While Abell was busy in the South American oil fields his wife, "Mac," kept occupied too. In Colombia her efforts to obtain books for Bogota libraries were recognized by the government. In Venezuela she wrote a column for the country's sole daily newspaper printed in English.

Both of the Abells, who won't admit to being unofficial ambassadors of good will but who definitely qualify, are looking forward to the Argentina assignment.

"Some Americans I've met on trips back to the States think of the South American countries as being alike," said Abell. "As a matter of fact they vary greatly in customs, people and geography."


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J. D. Thornton's two decades with Halliburton Oil Well Cementing Co., most of it in foreign service, was recognized recently when Ralph R. Emery, left, Halliburton's Vice President for Foreign Operations and Export Sales, gave Thornton a 20-year service pin, as R. G. Kelly, senior Vice President looks on. Since 1941 Thornton has worked in Venezuela, Colombia, Canada, Mexico, West Germany, Saudi Arabia and the Kuwait Neutral Zone. His hardest job abroad? "Learning to spell the name of a Mexican community in which I was stationed," he says. "It was at Coatzacoalcos."

---

Bette Smith, who recently joined Chio Oil Company at the Los Angeles office, calls Portland home and where she attended Oregon State College, taking a liberal arts course. Bette is in Ohio's accounting department as clerk-typist.

---

The need for legislation freeing independent natural gas producers from Federal regulation as public utilities was cited by President D. T. Staples of San Francisco, Tidewater Oil Company president, at the firm's annual shareholders meeting in New York.

---

Ole Berg Jr., formerly president of British American Oil Company, and earlier executive of Union Oil Company of California, has become board chairman of Stanwell Oil & Gas Company.

---

Alphonzo E. Bell, Los Angeles oil man, has added his name to the roster of directors of the Sister Elizabeth Kenny Foundation of Southern California. In addition to petroleum, Bell's interests extend to many other businesses.

Promotions were the cause of a recent personnel realignment in the production department of the General Petroleum Corporation.

According to an announcement by R. O. Swayze, vice president and director of production, the following changes went into effect on April 1:

John O. Hills was advanced to the position of assistant to the director of production;

Charles F. Gates, formerly chief production engineer, succeeds Hills in the position of assistant manager of the production engineering and equipment section;

Donald F. J. McIntosh, resident engineer at Ventura, was advanced to assistant to the superintendent of production of the Ventura division. He is replacing Donald B. Priest who will work on special assignments in his new post as special assistant in the production department.

Other appointments included:

F. L. Wadsworth advanced from chief petroleum engineer to assistant manager, petroleum engineering section;

C. L. Doyle, from assistant chief petroleum engineer to chief petroleum engineer;

K. B. Green, from research engineer to senior production engineer;

R. L. White, from laboratory engineer to research engineer.

In making the announcement, Swayze pointed out that these changes were in line with General Petroleum's policy of management development and promotions from within the company.

---

Ed Pauley has presented the Los Angeles zoo with a polar bear cub he purchased from an Eskimo on his recent tour of Point Barrow and other Alaskan points. Pauley flew the cub to Los Angeles in his private plane.

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Lewis B. Kingsley, Santa Barbara, and M. H. McGinnis of Santa Paula and Avenal, are given as general partners in the new firm of Kingsley-McGinnis Operators, Ltd., 2610 Pierce Road, Bakersfield.

---

Western Gulf Oil Company has announced that it has suspended offshore exploration in California until the State has clarified the terms upon which leases of its offshore lands will be made.

---

Kern County lost one of its beloved members in the sudden passing of Harry A. Hopkins, 75, veteran San Joaquin Valley oil man and prominent Bakersfield business man. Mr. Hopkins came to Kern County in July of 1904 and was appointed assistant manager of the Chanslor-Canfield-Midway Oil Company. He was a member of the small delegation that named the town of Taft after President William Howard Taft and he served on the first council of that community. He was the third mayor of Taft and the city's first postmaster. He had been retired for the last five years and he made his home in Bakersfield.

---

Jack Decker, who was recently named manager of exploration for Pacific Oil & Gas Development Corporation, maintains Bakersfield offices in the Professional Building, 930 Truxtun avenue.

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# Petroleum LORE and LINGO

By RICHARD SNEDDON

### Words—Their Use and Misuse

Having been occupied in various phases of the petroleum business, and in divergent capacities, for almost 35 years, I have always been especially excited by the discovery of interesting bits of oil field legend or oil-word lore. The story of oil development, from the bringing in of the Drake well to the present time, is entertainingly interspersed with episodes and events that may be looked upon as historical seasoning. They are not really an essential part of the basic tale, but in the right place can add rich savor to their telling.

By the same token, the language of the industry offers lots of good sport for the etymon hunter, and note that while "etymon" is commonly used as a synonym for "word" it actually signifies "word meaning and derivation." Many words have histories that are as colorful as those of adventurous people and tracing down the facts is a rewarding exercise.

Such a pursuit may appear on the surface to be strictly for the highbrow, but actually it is a hobby that can be enjoyed by anyone with a fair knowledge of English, a modicum of patience, and a library card.

### Language is Dynamic

It has long been the belief of what might be termed the linguistic stuffed shirts that English is a static tongue and that it is nothing short of heresy to change the form of a word, to give it new meaning, or to invent a new word. There are still a few diehards who cling to this credo, but the majority of the experts are now agreed that all language is dynamic.

Old words die, new ones are born, and the whole system of communication, written and oral, is in a constant state of flux. Anyone who doubts this should listen to a group of bebop dancers in session, read an oil well drilling report, or turn to the "new word" section of a good dictionary and take a gander at the legacy of vocables that has been bequeathed to posterity by the last three or four wars.

### AN EDITORIAL ANNOUNCEMENT

**In this issue we are pleased to announce the beginning of a new feature, entitled "Petroleum Lore and Lingo" by Dick Sneddon. This will not replace the Grapevine but will alternate with it, so that the latter will continue to appear in the second issue of each month, and the Lore & Lingo column will be carried in the first issue.**

**The author plans in the new series to dilate in an elementary and perhaps somewhat breezy way on the evolution of exploration, drilling, production and refining methods in the petroleum industry. At the same time he will attempt to define technical terms in simple language; point out odd and interesting facts about the industry; and where appropriate, savor the telling with bits of the lore and legend that have enriched the oil story during the past 98 years.**

**The first two or three columns will relate some of the processes of language development in order to facilitate understanding of later contributions. After that, the various phases of operation will be discussed in logical sequence, with a few special columns being devoted to such matters as measurements, containers, physical properties, and perhaps one very special column on the characteristics and behavior of the petroleum people.**

### Word Sources

Every new industry in time develops its own lingo out of which many words are adopted more or less permanently into what the intelligentsia calls the vocabulary of the "vulgate," that's us, and may finally have the honor of acceptance by the intelligentsia itself, who knows? The movies, aviation, radio, television, plastics, electronics and petrochemicals have each brought us a fresh grist of technical terms, and we are indebted to the armed services for a long list of new expressions and words that are in the main very apt, and often decidedly amusing.

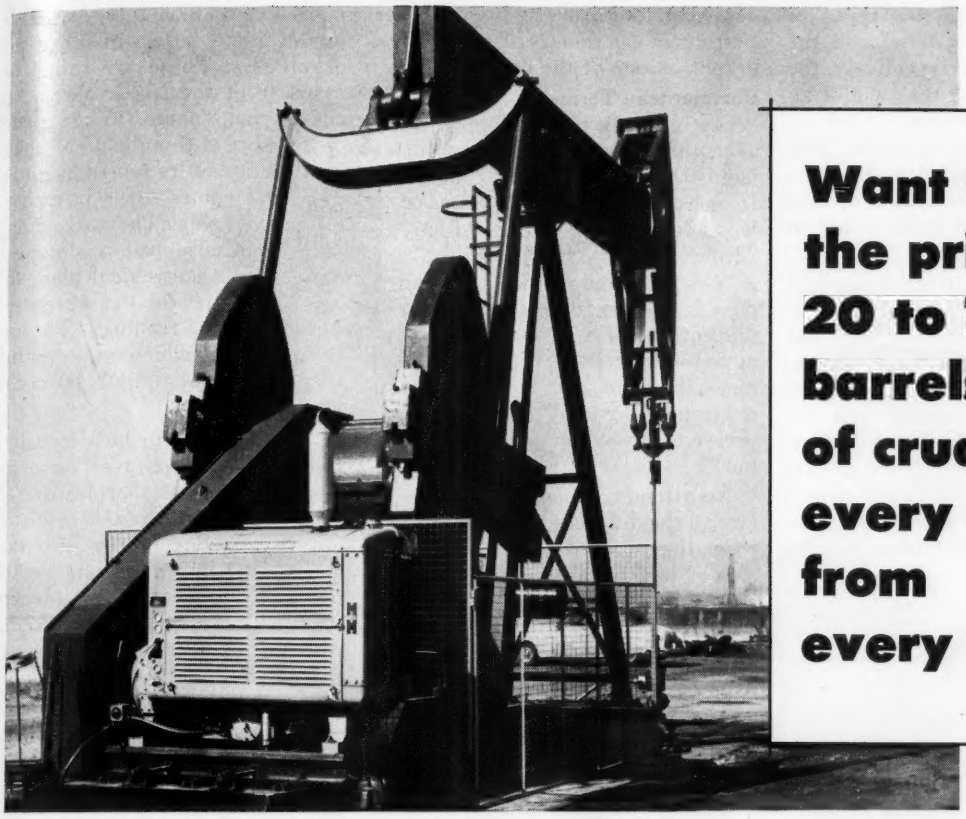
Here in the United States we have become pretty generally regarded as leading inventors of words, and the petroleum people are quite substantial contributors to this process of language development.

There are many ways in which new words are formed. Practically everyone, for example, is familiar with the telescope method. This has given us such specimens as "brunch," a combination of "breakfast" and "lunch," "smog," a derivative of "fog" and "smoke"; "smish" a Bay City squeeze of "smog and fish"; and "hesh," a narcotic sounding but quite innocuous blending of "he" and "she."

### Getting Down to Cases

Oil men have by no means been remiss in this species of neologistic enterprise, and before you run for cover, "neo" comes from the Greek **neos,** "new," and **logos** meaning "a word," so a neologist is just a smart aleck who produces new words. Incidentally, we'll be hearing more about **logos** later so, as the poets say, "mark it well."

Getting down to cases, attention was drawn in Kobe's "Pumping Trends" some time ago to the term "flumper," an ingenious coinage, originated by oilfield operators in some areas to designate a producing well that is passing from the flowing to the pumping stage. Reference has been made in the literature, face-



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tiously no doubt, to two types of divining rod, the "twillow" and the "twash," which are, respectively, the twig of a willow and the twig of an ash. The most commonly used, of course, was the witch hazel. This variety of choice indicates that the earlier rhabdomantists had diverse ideas about the best tools to use in their nebulous trade.

A rhabdomantist, in case you had not heard, is a doodlebug expert or diviner. The word comes from the Greek **rhabdos,** a "rod," and **"mantia,** "to divine" or "to foretell." Much to my surprise, I learned upon investigation that the diviner is not, as I had supposed, one gifted of God with divine, or supernatural power. His name actually comes from an old French word **deviner,** "to discover."

To "doodle" is "to cheat" or "make a fool of," and according to Webster, a doodlebug is "any unscientific device with which it is claimed that minerals, including petroleum, water, etc., may be located." If that definition be accepted, the geophysical boys have some public relations work to do (probably in the Mid Continent) for Lalia Phipps Boone in her Petroleum Dictionary lists "seismograph" as one of the doodlebugs.

**Portmanteau Terms**

Getting back to telescoping, however, the thing can really get out of hand if it isn't properly controlled. It has actually been suggested that we adopt such monstrosities as "drole" for "dry hole," "glifter" for a "gas lift" well, "ankle" for "anticline,' 'synkle" for "syncline," and one enthusiast is even trying to promote "strap" for "stratigraphic trap," but as Archie, the Duffy's Tavern majordomo, would say in his expressive Brooklynese, "Perish forbid!"

No attempt is being made here to cite all the different methods of word formation, for two very good reasons: First, the author doesn't know them; and second, this is not a text on the mechanics of language development. As a matter of fact, up to this point it would not be easy to decide what it **is** a text on, so pretending to be either specific or comprehensive is rather futile.

**Other Types**

There are certain words that have no roots but are simple combinations of the initial letters of other words or phrases. These are called acronyms from the Greek **akro,** "tip," and **onyma,** "name." Some students of this sort of thing contend that tip itself in one of its senses, is an acronym that comes to us in rather an interesting way. The early English taverns usually had a slotted box hanging in a convenient place to receive gratuities for the servants. On it was a sign, reading, "To Insure Promptness," which was eventually reduced to its initial letters and became "Tip."

"Fad" is said to be similarly derived from the phrase "for a day." The lexicological sharpies don't exactly agree with these case histories but that is one of the nice things about not being an expert, one does not have to be boringly accurate. And whether or not the examples referred to are genuine acronyms, there is no doubt that we have acquired many words in this way.

"Vip" is commonly accepted slang for "very important people;" "Conoco," "Socony," "Emsco" and "Ken" are full or semi-acronyms that are


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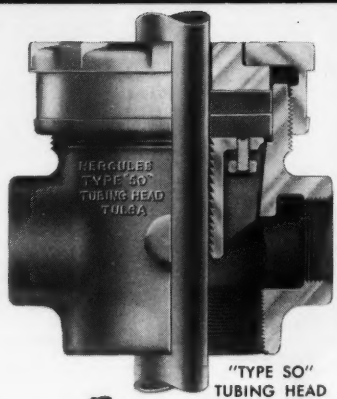


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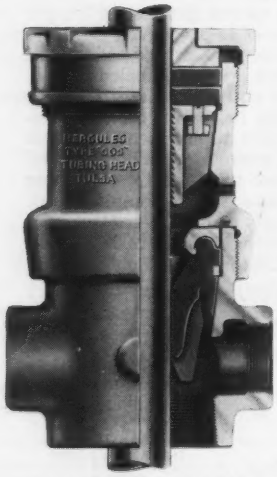


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well known and widely used; Conoco is Continental Oil Co.; Socony is Standard Oil Company of New York; Emsco was formerly E. M. Smith Co.; and Ken (Corporation) is a combination of the initials of Keith, Earl, and Neal, the three lads who head it up. And what oil man isn't familiar with "CARE" the Co-operative for American Remittances to Europe? Or, the little Fiat car which takes its name from Fabbrica Italiana Automobile Torino.

If you were overeas in the second World War to stop all wars, you probably discovered that the French black marketer was known as a "bof" because his illicit dealings were principally in **boeuf, oeufs,** et **fromage,** beef, eggs and cheese. The Nomads, an organization of oil equipment sales people who have sold in foreign fields, have an appropriate name which comes from the "National Oil-equipment Manufacturing and Delegates Society," but it looks very much as if they thought of the acronym first and then dreamed up an organization title from which to derive it.

### The Word Builders

A major proportion of those dedicated people who make either a hobby or a business of tracking down word origins, are convinced that spoken languages began with a series of grunts, groans, and meaningless vocal ejaculations! These were involuntarily uttered by our cavemen ancestors when they stepped on a piece of sharp rock with bare feet, bit their tongues, or spotted the shapely cutie from the cave next door strutting by in a new and more daring fig leaf ensemble.

That's where we got the single syllables, "oh," and "ah," and the more complex "geewhiz" and "holy smokestacks." They and others of their kind are simply instinctive expressions of emotions such as surprise, fear, sorrow, gratification, disappointment, and so on.

It was probably pretty early in the process of speech development that our forefathers and foremothers began to imitate the sounds they heard about them—the howls of wild animals, the piping of birds, the murmurs of insects, and all the miscellany of noises, big and little, with which they were familiar.


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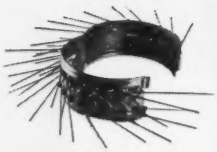

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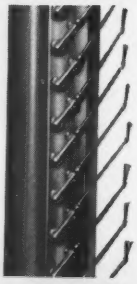

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### Echoic Words

This produced a new type of word, the onomatopoeism, which could quite easily drive the more timid reader off in an agony of confusion. Actually, however, big words are very much like chemical formulas, they can be broken down into very simple terms, and then they completely lose their frightsomeness. This onomatopoeic thing as an illustration comes from two Greek words **onyma,** "a name," and **"poiein,** "to make," so when we speak of onomatopoeisms, we should merely mean "the making of words" but in reality the term is usually applied to words that are imitative of sounds.

The comic books are full of these imitative or echoic words. "Wham," "buzz," and "bang," are typical samples. "Gusher" is one with which most oil people are familiar. Then there are some less explosive ones, two of which have been noted in the preceding paragraph, namely the "murmur" of insects and the "piping" of birds.

### Derivation of Pipe

The latter by a somewhat circuitous but quite logical series of circumstances gives us our word "pipe." It comes originally from the Latin **pipare,** a term that, as the early Romans pronounced it, was imitative of the chirping of birds. In the course of time someone discovered that by blowing into a hollow tube such as a reed or stalk, he could produce sounds similar to the piping of the birds. As often happens in this business of language development, the instrument was named for its effect. It was called **pipa,** whence directly comes our word "pipe."

Thus all hollow cylinders are now commonly known as pipes, regardless of the fact that purchasing agents prefer to call them "tubular goods;" the Shell News refers to them as "long holes wrapped in steel;" and I have even heard a pipe line spoken of as "a continuity of conjoined metalliferous cylindricals." And while we are in the transportation department, it might be noted that "pump" is another word that is imitative of the sound produced by the device to which it is applied.

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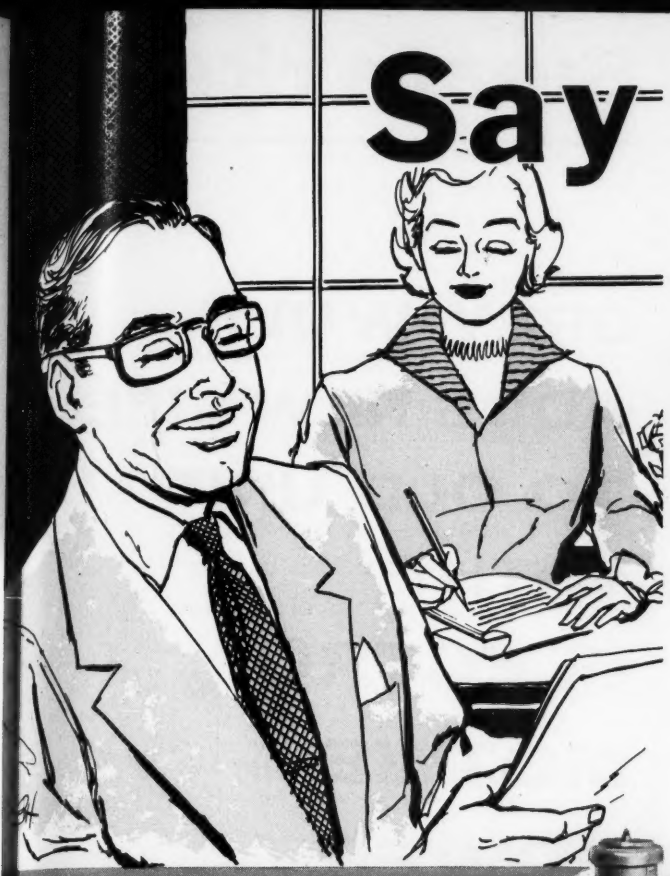
Fun is like insurance—the older you get, the more it costs.



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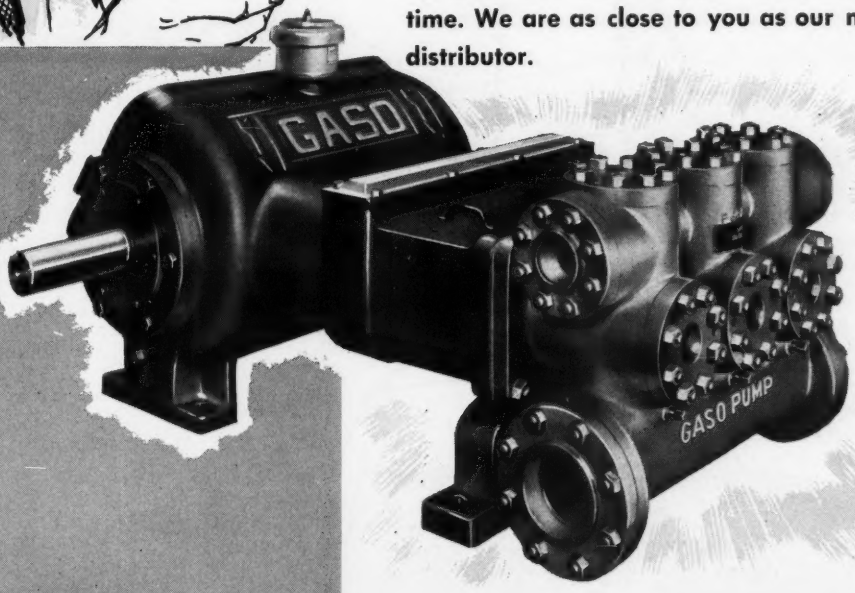


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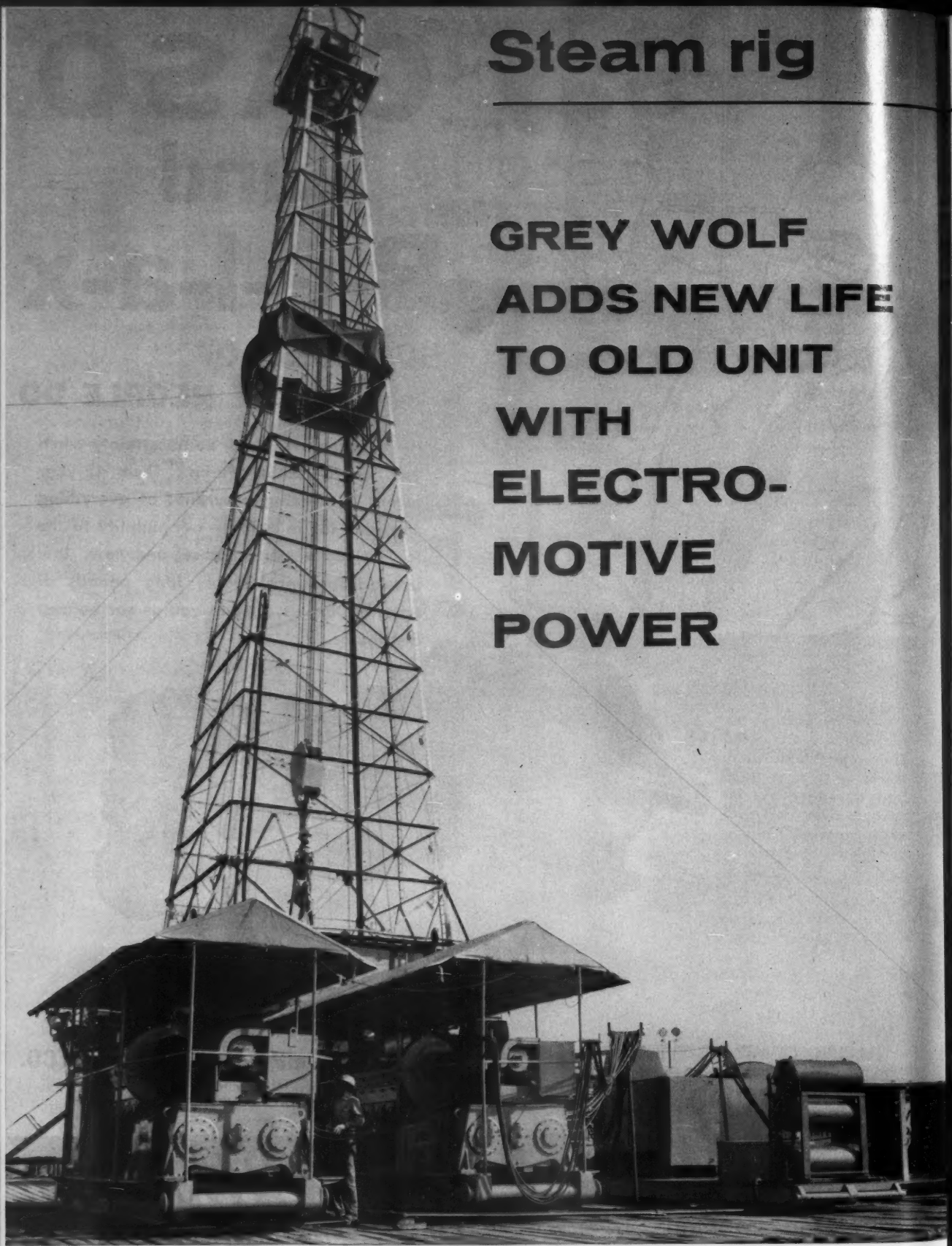
# Steam rig

## GREY WOLF ADDS NEW LIFE TO OLD UNIT WITH ELECTRO-MOTIVE POWER



Two skid-mounted Electro-Motive 875-hp generating sets power Grey Wolf's recently converted rig. Each 8-cylinder engine drives two 500-kw dc generators that supply power to electric drive motors on draw works, rotary and mud pumps. Electrical control cabinet is located on skid to right of engines.

# converted to Diesel-Electric

Grey Wolf Drilling Company of Houston expects its newly converted Diesel-Electric rig will cut rig-up time to three days—just half the time it took with the old steam unit.

In addition, "trips" are faster with the new rig and drilling speeds were judged faster on two locations where depths up to 13,000 feet were reached. Maximum drilling depth is well beyond 17,000 feet.

## Why Diesel-Electric?

Grey Wolf saw two distinct advantages: Diesel-Electric would adapt readily to present components, thus reduce costs; and because components are connected by flexible electric cables, the rig could be broken into skid-mounted packages for fast transport and quick rig-up.

## Why Electro-Motive Power?

A "packaged" system was one reason Grey Wolf decided on Electro-Motive Power. For this system is designed and built to work together—one manufacturer—one source of responsibility. Other reasons were the accurate control and torque characteristics of Electro-Motive Power plus its demonstrated economies of long life and low maintenance on both land and offshore rigs.

Have you considered the advantages of Diesel-Electric for your drilling operations? Contact your Electro-Motive Representative for complete details.

**ELECTRO-MOTIVE DIVISION**
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In Canada: General Motors Diesel Limited, London, Ontario
**Petroleum Industry Sales Offices:** Dallas and Houston, Texas; Morgan City, Louisiana; Los Angeles, California.

View from derrick floor shows simple arrangement of components on ground. Single 625-hp dc electric motors drive mud pumps. Electric cables run from generating units to various motors on overhead runways. Flexible cables permit placing equipment to fit location conditions.

Driller's control stand provides maximum visibility for every operation. Simple, sensitive controls provide smooth and rapid acceleration of loads with positive control of speed and torque. From this one panel, driller has complete control of all Diesel-Electric equipment.

# Field Development

## Lindsay Hills Ground Leased

Standard Oil of California is understood to have assembled again about 1240 acres in the Lindsay Hills area in Kern County and about four miles southeast of the Lost Hills field. The ground, once given up, is the site of the company's Van Sicklin No. 45 on Section 36-27s-21e, which was abandoned at 14,577 feet in April of 1950, after spudding-in February, 1948. Swabbing operations during initial work accounted for water with a trace of oil from several points in the deep test. Main target was the Belridge 64 sand and it maybe that the company has plans drawn for a return visit to the well.

## Helm Well Digs Ahead

Drilling at this writing is several hundred feet down with McColloch Oil Exploration's UC No. 1 well on Section 14-17s-18e in the Helm field in Fresno County. Location offsets a General Petroleum well, putting out 105 barrels a day from oil sand in the Miocene formation.

## Edison Test On Calendar

Bankline Oil Company is preparing to take down its Booth-Siemens No. 1 test on Section 36-29s-28e in the Edison sector in Kern County. The well will be drilled to approximately 2500 feet.

## Wheeler Ridge Well Completed

Richfield Oil Corporation has completed its Mitchell No. 88-26 on Section 26-11n-20w, three-fifths of a mile northwest of the Windgap pool in the Wheeler Ridge area. The well was carried to 9153 feet before it was plugged off at 9040 feet for the final touch in the Lower Miocene sand. The well started off at the daily rate of 20 barrels of 53.3 gravity oil a day through 8/64-inch choke along with 270,000 cubic feet of gas. It was about a year ago when Richfield opened the Windgap pool with its KCL F No. 52-36 which was finaled at 8948-9042 feet for 150 barrels a day of 41 gravity oil.

## Calder Wildcat Digging Deeper

A dozen miles west of Bakersfield at Calder, McCulloch Oil Exploration Company's SP No. 1 wildcat on Section 25-29s-25e is being drilled ahead near 6000 feet. The well, which offsets production to the northeast and northwest, will be taken to not far short of 9000 feet. The Calder field was discovered by General Petroleum Corporation eight years ago with completion of KCL-Calder No. 38-23. It came in for more than 400 barrels of 35 gravity oil daily from the Stevens sand zone from 8808 to 8834 feet. A total depth in the Stevens around 12,650 feet was attained before the operator went back up for completion in the Stevens.

## Coles Levee Well Drilling

Drilling is proceeding normally at a depth last reported near 5200 feet with Ohio Oil Company's KCL F No. 71-10 well, trying for deeper zone production on Section 10-31s-25e at South Coles Levee in Kern County. Camay Drilling is handling the chores on the well, which is slightly less than a half-mile north of Ohio's discovery well.


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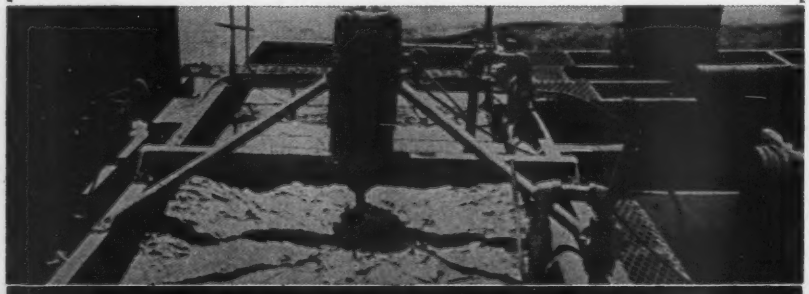

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# Renee Reifel

**She wants to know what we did with the $401,518,000**

RENEE REIFEL is a secretary in the marketing department of Union Oil. She is also—through our Employees' Incentive Plan—one of our 5,906 employees who hold shares in the firm.

This entitles her (along with over 65,000 other people who own shares in Union Oil) to a report on the 66th year of business of the 47th largest industrial company in the country.

In 1956 our customers paid us $401,518,000—a new record.

### How we spent it

We spent 72.1% of this—or $289,481,000—with over sixteen thousand other companies and individuals with whom we do business.

The more than 1000 tax collecting agencies took another 3.7%, or $14,830,000. This does *not* include the $74,120,000 we collected from our customers as fuel taxes and turned over to governmental agencies.

Wages and other benefits for our workers and their families amounted to 15.7%, or $62,966,000 of our income.

This left 8.5%—or $34,241,000—as net profit. Slightly more than half of these earnings—$18,261,315—were paid in cash dividends to Renee Reifel and our other 65,000 share owners.

The balance of our net earnings—equal to 4.0% of our customers' dollars—we reinvested in the company in order to stay in business.

### The new ownership

It seems to us this report does more than give an account of our stewardship to Renee Reifel and our other owners.

It points up the broader base of ownership of American business. In the last four years, for example, the shareholders of all companies listed on the New York Stock Exchange increased by 33%. Union Oil did even better—41%.

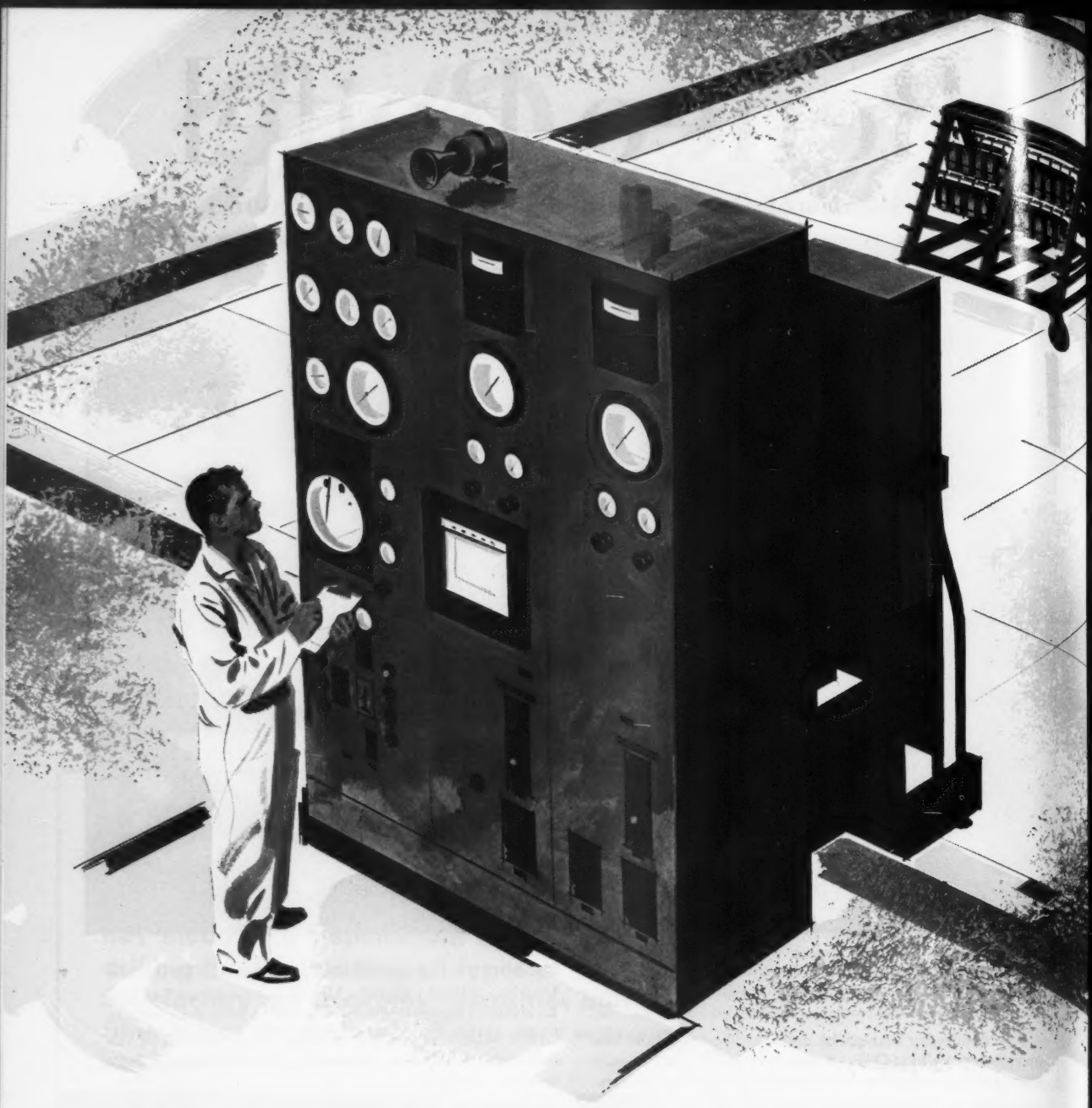
This could happen only in a freely competitive economy that encourages and rewards individual effort.

* * * *

YOUR COMMENTS ARE INVITED. *Write: The Chairman of the Board, Union Oil Co., Union Oil Bldg., Los Angeles 17, Calif.*

## Union Oil Company OF CALIFORNIA

MANUFACTURERS OF ROYAL TRITON, THE AMAZING PURPLE MOTOR OIL



# *They set a new "drilling record" every day*

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Yet the test wells in this Schlumberger laboratory were designed and constructed to reach 450 degrees maximum operating temperature and 25,000 psi working pressure, hydrostatically tested at 37,500 lbs.

As a result, Schlumberger had the cables, instruments and perforating guns perfected and ready to meet the challenge of extreme depths, pressures and temperatures when the present record well was drilled in Louisiana.

Since 1934, Schlumberger has logged every record depth well. And laboratories such as this, where extensive research into future drilling conditions is conducted years ahead of the actual need in the field, is only one of the reasons why Schlumberger is always ready.

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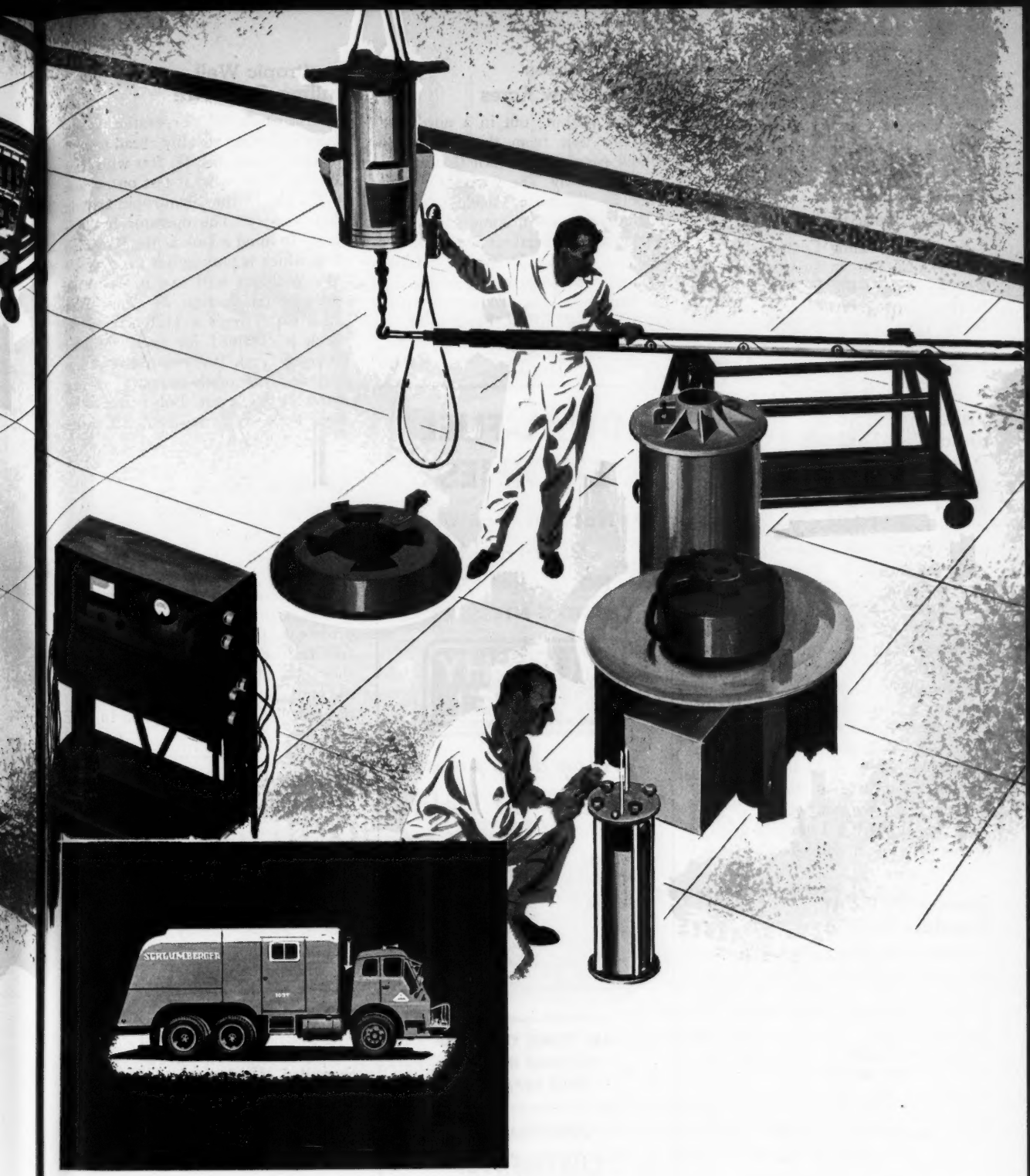
**THE EYES OF THE OIL INDUSTRY**




Schlumberger...to be sure!

The latter first showed its ability in 1938 when it came in flowing 735 barrels a day from a total bottom of 9366 feet. The chief target of the present effort is the Stevens oil sand section.

## Fruitvale Test Moving Steadily

Santa Fe Drilling Company's KCL No. 64X-26 test well on Section 26-29s-27e, east of the Fruitvale field in Kern County, continues to dig on down below 1200 feet. The Fruitvale field proper has been on production since February, 1928.

## Vallecitos Project Ready For Drilling

All set and ready to drill is Franco Western Oil Company's Ashurst No. 51A-14 project on Section 14-17s-11e in San Benito County's Vallecitos sector. The wildcat, designed to go 5000 feet or thereabouts, lies southeast by four and one-half miles from the F. & I. lease, where Shell Oil has put on production five wells, and three miles southeast of Franco Western's Amhurst No. 52A on Section 33-16s-11e, completed last year for a new oil find. In the Bitterwater area, Fred Ash and Sons was last reported digging at 1800 feet with Ash-No. 1-Eade on Section 34-17s-9e. At Hollister, Petrolex Inc. is drilling at 950 feet with Hudner No. 1 test on Section 19-12s-5e. Ferry Morse No. 1 on Section 20 is temporarily idle at 5015 feet.

## Chester Oil Plans Rosedale Drilling

Chester Oil Company has staked location for its Chester Oil No. 1 wildcat on Section 26-29s-26e in Kern County's Rosedale sector. Shell Oil Company's KCL No. 53-14 test on Section 14-29s-26e is down approximately 10,000 feet at this writing. Location is a half-mile northeast of a production failure drilled several years ago by Humble Oil to 10,500 feet.

## Kettleman Hills Wildcat Inactive

Idle at 11,147 feet is the current status of North Dome Oil Company's Aydelott No. 1 wildcat well on Section 27-21s-17e at Kettleman Hills in Fresno County. The project was bent on turning up Eocene production.

## Texaco Leases Buttonwillow Acres

Land, pushing out in a northwesterly direction from the old Buttonwillow gas field in Kern County, has been leased by The Texas Company from the Southern Pacific Company. The ground taken, some 1500 acres, lies in parts of Sections 23, 25, 35-27s-22e and Section 31-27s-23e. Milham Exploration Company opened the area to commercial gas production with a discovery well to the Pliocene in October, 1926.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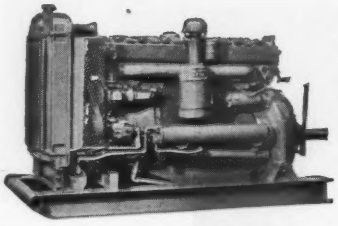

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## Semitropic Well Drilling On Down

Bolsa Chica Oil Corporation as operator is drilling steadily ahead toward objective depth of 8500 feet with Vica Co. No. 73-16 wildcat test on Section 16-27s-23e in the Semitropic area in Kern County. The operator has primarily in mind a look at the Randolph sand, which is putting out for Humble Oil's Williams well two miles to the southeast on Section 24. The Bolsa Chica play covers a 1120-acre block, which it obtained for itself, Mitchel Company and Berry Holding Company and with each company holding a one-third interest. Bolsa Chica also owns leases on additional 580 acres close to the farmout.

## Antelope Valley Wildcat Abandoned

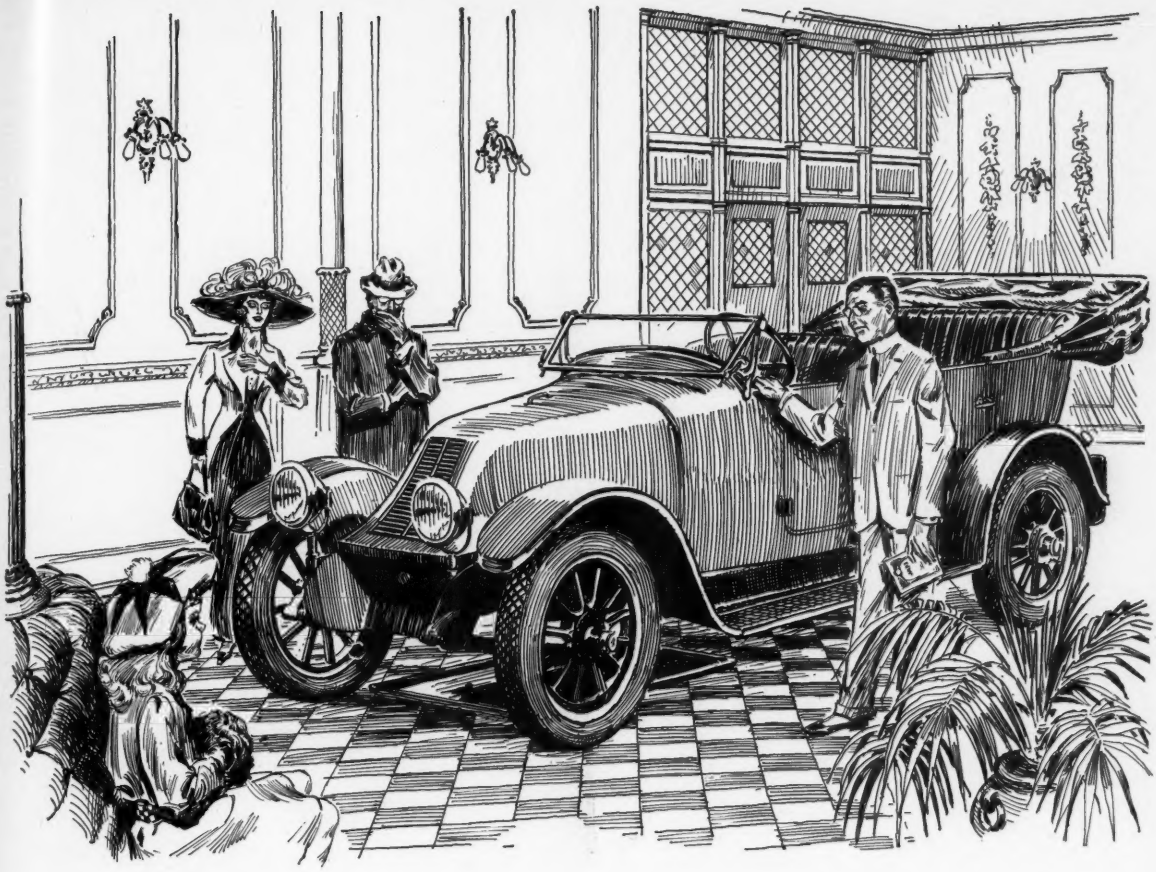
Phillips Investment Corporation's Loosemore No. 2 wildcat on Section 33-25s-17e in Antelope Valley, Kern County, has been abandoned on its second redrilling at 1694 feet. The project the first time was taken to 1725 feet and on a test of 1632-1654 feet showed a light blow and gassy drilling mud, but no free water. On the initial redrill the well was taken to 1927 feet.

## Kerman Wildcat Goes Off Board

Salt water and sand were recovered on formation test of the interval of 5098-5124 feet in the Domengine with W. W. Holmes' MID No. 83-2 explorer on Section 2-14s-16e at Kerman in Fresno County. In consideration of this the well was abandoned at a total depth of 5124 feet. Shell, Richfield and Amerada also have drilled in the area without stumbling across new production.

## Parallel Wildcat Test Programmed

Western Gulf Oil Company is expected to start shortly on its scheduled 12,000-foot Stevens zone test in the Parallel area of Kern County, with drilling contract in the hands of Hayes & Sprague. In the Temblor Hills, Western Gulf's Hagood-US No. 1 test on Section 14-30s-20e is being drilled on down near 4500 feet, following a stop around 4200 feet for equipment repairs. Contractor is B. J. & M. Drilling Company. The company's I. M.



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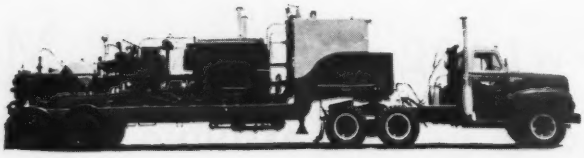

Completion costs can be cut on tough primary cementing jobs by multiple stage cementing the Halliburton way... with one casing string, with one time-saving trip to the well. You benefit in time and money saving from these important advantages:

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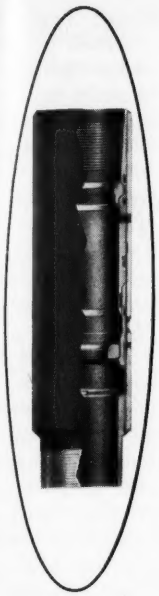
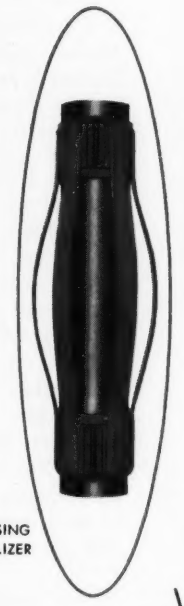
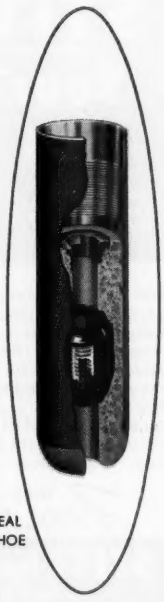


"DV" MULTIPLE STAGE CEMENTER



"S-3" CASING CENTRALIZER



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Woodward USL No. 11 wildcat on Section 21-11n-23w in the Santiago area is drilling below 4200 feet. The derrick stands about 1500 feet west and a little north of Richfield Oil's discovery well on the Leutholtz lease.

## Moffat Ranch Test Spudded-In

Spudded-in and drilling is Trico Oil & Gas Company's Texas-Cook-L. & C. No. 1 wildcat on Section 33-11s-14e on the Moffat Ranch in Madera County, where The Texas Company discovered dry gas in September of 1943.

## Comanche Point Wildcat Inactive

After drilling to a total depth of 2303 feet and plugging back to 2195 feet for tests, Pacific Central Company's No. 1 on Section 29-12n-18w is evidently idle for a time at least.

## West Biggs Well Drilling On Down

Humble Oil & Refining Company's Schohr No. 2 extension test on Section 14-8n-4e at West Biggs in Butte County is drilling several hundred feet below grass roots. The company recently clicked with a new field discovery in the area with Schohr No. 1, which started off at the daily rate of 3,810,000 cubic feet of gas. Total bottom was 4775 feet with plug at 2675 feet and the interval of 2578-2593 feet perforated. B. J. & M. Drilling Company is handling No. 2. Southeast of Cantua Creek in Fresno County, Humble has plugged back from 11,111 feet to redrill its C. R. Puckhaber et al No. 1 wildcat on Section 4-18s-16e. U. S. Drilling Company is in charge. Humble has four jobs at various stages in Glenn County.

## Sulphur Mountain Test Well Staked

One-quarter-mile east of Sulphur Mountain production in Ventura County, Exeter Oil Company has staked location for Exeter-Thompson No. 1 extension test on Section 22-4n-22w. Myers Drilling Company has the contract.

## Los Alamos Test Planned

Westates Petroleum Corporation of San Francisco has things ready to begin drilling Confaglia Lease No. 1 wildcat test on Section 34-[illegible]n-32w, Santa Barbara County. The dr[illegible] site is three miles southeast of Los Alamos townsite and between the [illegible]arham Ranch and Gato Ridge produc[illegible]on.

## Pauley Drilling Yolo County Test

Edwin W. Pauley is moving ahead at a relatively shallow depth with his Alaska Packers No. 1 wildcat test on Section 8-8n-4e, Yolo County. Location is about 14 miles southwest of Sacramento, across the line in Sacramento County. The play spreads over 11,000 acres on a farmout from Humble Oil & Refining Company and an additional 5000 acres leased by Pauley in the Freeport Bend sector. Target is approximately 6500 feet. Cretaceous gas showings may come to light by 5000 feet. Humble Oil's Mary A. Tippetts Estate et al No. 1 explorer on Section 15-12n-3w in the Rumsey area is down 13,395 feet and undergoing equipment repairs. Northwest of Dunnigan Hills, the company has locations for a couple of core holes on Sections 25 and 35-12n-2w, respectively.

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## Liberty Island Test On Agenda

A depth of 6500 feet is likely to tell the story for The Texas Company with its Liberty Farms (NCT-1) No. 1 wildcat project, just started on Section 7-5n-3e at Liberty Island in Solano County. Over in Shasta County, High T. Harrison's Tucker No. 1 explorer on Section 3-30n-4w for a time is idle at 2430 feet.

## Pismo Beach Well Fishing

Madonna Construction Company evidently ran into a fishing job at 6325 feet with its Oceano No. 1 exploratory venture on Section 31-32s-13e at South Pismo Beach in San Luis Obispo County. Over in the Avila area, Charles C. Townsend has run a formation test at 794-1003 feet with his Townsend-Gunter No. 1 on Section 18-31s-12e. Recovery at that point was made up of water and a trace of oil. The well is down 1201 feet.

## Compton Landing Well Scheduled

Richard S. Rheem as operator and Occidental Petroleum Corporation will drill Zumwalt No. 2 in the northwest portion of Section 12-17n-2w at Compton Landing in Colusa County. Location is some 1200 feet due west from Zumwalt No. 1, which was recently completed for an initial potential of 4,000,000 cubic feet of gas a day. No. 2 will go to the Carter sand zones, comprising a portion of the Wild Goose formation, producing in the Compton gas field sector.

## Cat Canyon Wildcat Quits

Drilling has come to a permanent halt at 6116 feet with Standard Oil's C. M. White No. 46-16 on Section 16-9n-33w in the Cat Canyon area of Santa Barbara County.

## Salinas Valley Depth Well Quits

The deepest well ever put down in Monterey County in Salinas Valley has been abandoned as a production failure at a depth of 11,994 feet. Sponsored by The Texas Company and known as Shell (NCT-1) No. 1, the well was located on Section 6-24s-10e and no great distance from the San Ardo field. Although nothing of major importance was turned up, the project did encounter some showings of oil and gas in a drilling trip through shale most of the way to bottom. The previous record holder in Monterey County was the company's Signal No. 1, which was taken to 10,480 feet in 1952 without attaining commercial success. This project was situated about five miles to the southeast from the most recent failure, which was located, more specifically in Mincey Canyon. Texaco's ambitious test, just given up, was spudded-in about seven months ago.

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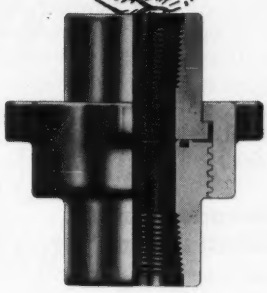

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## Beacon Anticline Wildcatting Listed

Approximately 11,500 feet is objective depth of The Texas Company's Newhall D No. 2, which is doing preparative work on Section 12-4n-17w in the Beacon Anticline area, Los Angeles County. The drill site is no more than 2000 feet east of Newhall D No. 1, which was abandoned March 1 last at a drilled depth of 11,662 feet. In the Athens area, Texaco is ready to begin drilling its Howard Park No. 1 wildcat on Section 18-3s-13w near the intersection of Hoover and 132nd streets. In the Castaic sector, Sunray Mid-Continent Oil Company is not many days away from drilling Sunray-McCulloch NCS No. 1 wildcat on Section 25-4n-17w, a designated 12,000-foot test. On Section 26-5n-17w, Hancock Oil Company has walked away from its Van Couvering No. 26-26 test at 5920 feet.

## Roberts Island Test Under Way

Standard Oil of California is under way with its Woods Community No. 2-2 wildcat test on Section 26-1n-5e or seven-eighths of a mile southeast of its Woods Community No. 1 discovery and up to now the only producing well in the Roberts Island gas field, San Joaquin County. The discovery was completed five years ago for initial output of 5,613,000 cubic feet of gas a day from 5234-5250 feet.

## Seal Beach Wells Work

Hancock Oil Company's Alamitos No. 25 well on Section 13-5s-12w in the Seal Beach field in Los Angeles and Orange Counties is redrilling at 6400 feet. It went originally to 6208 feet. Hellman Estate is about to spud well No. 56 on Section 13-5s-12w.

## West Coyote Test Drilling Steadily

Drilling is continuing at a depth of 8800 feet with Standard Oil's Murphy Coyote No. 310 deep test on Section 19-3s-10w at West Coyote in Orange County. At West Newport, R. B. Watkins as operator has completed Deeble No. 6 on Section 13-6s-11w at a plugged depth of 5600 feet for 95 barrels of 26 gravity oil a day, cutting initially about five per cent. Total bottom is 6960 feet.

## Silverado Canyon Wildcat Drilling

Drilling at last reports was at a depth of 1750 feet with Equality Oil Company's Irvine No. 1 test on Section 12-5s-8w at Silverado Canyon in Orange County. At Esperanza, Bartholomae Oil Corporation's Bryant Ranch No. 7 wildcat on Section 29-3s-8w was about ready for digging.

## Mahala Field Well Planned

Location has been made by James Michelin, operator, for Abacherli No. 10 well on Section 12-3s-8w in the Mahala field in San Bernardino County. McMullen Construction Company has been awarded the drilling contract.

## Richfield Wins Award of Merit

William G. King, Richfield Oil Corporation, vice president and director, accepted for his company the Alexander Hamilton Free Enterprise Award of Merit for "its contribution toward better public understanding of our competitive free economic system." The presentation was made at a Kiwanis Club Invest in America Week luncheon at the Los Angeles Biltmore by W. G. Paul, Los Angeles Stock Exchange president.

## Whirlybird Speeds Jungle Oil Study

Signal Exploration Company, subsidiary of Signal Oil & Gas Company of Los Angeles, is speeding up its geological survey of the El Peten jungle area in Guatemala with a helicoptor provided by Kern Copters, Inc., Bakersfield, which also has a branch company in the Central American Republic. The Signal field crew is headed by Geologist Dick Hester, with base of operations at San Luis, a farming community.

## Baroid Adds New Building

Effective April 1, 1957, Baroid Division, National Lead Company, occupied a new building addition, which subjoins the present General Office building at 2404 Danville, Houston, Texas. This new construction provides Baroid with about 15,700 extra square feet of office and laboratory space.

Development of new products and continued growth in their Drilling Mud, Well Logging and Mineral and Chemical Sales services have created the need for this expansion. Six new laboratories are included and, with space being freed for four other labs in the present building, Baroid's laboratory space will be increased 43.5%.

The new building continues the two-story, buff brick construction of the main office and is completely air conditioned.

Architect for the new building is Alfred C. Finn. General contractors are LeBlanc, Inc. W. O. Ray is electrical engineer. Britain Electrical and Way Engineering handled the electrical and mechanical elements of the building.

## Correction on Dabney Estate

Roy Dolley, attorney for the estate of Louise E. Dabney, widow of oil pioneer Joseph B. Dabney, has asked us to clarify an article in a prior issue on the final accounting in the Dabney estate. We mentioned it was a $16,000,000 estate, and said that of the original amount, only $7,000 remained to be distributed to the heirs. Roy says the article has improved his credit at the bank, but he doesn't want the income tax collector to think he has some $15,000,000 of Dabney money cached some place.

Although the estate was originally appraised at less than $7,000,000, the heirs received in distributions prior to the final accounting cash and property worth approximately $12,000,000. This was possible because under the able administration of the executor, Milton H. Philleo, the estate more than doubled in value. Taxes, litigation costs and other expenses of administration accounted for the difference between the $12,000,000 distributed and the total estate accounted for.

## Standard Seeking Sahara Ground

Standard Oil Company of California is sustaining its efforts to acquire concessions south of the Sahara area, under French control. At the company's recent annual meeting in San Francisco, Chairman R. G. Follis made known that so far the French have only made exploration there available to tricolor organizations.

## Union Sponsors Race Telecasts

Union Oil Company has arranged to televise the feature stake race at Hollywood Park each Saturday during the racing season which began May 11. This course was decided upon because of the great response to the company's telecasts of the feature stake races at Santa Anita this year. The telecasts are seen over 17 stations of the Pacific Coast regional television network of the Columbia Broadcasting System.

---

Then there's the cute little nurse who deducts 10 beats from the patient's pulse to allow for her personality and things.

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"Does your girl friend come from a prominent family?"

"Oh, yes, her father has a prominent chin, her mother has a prominent nose, and her brother has prominent ears."

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At every stop of the San Francisco-New York plane, a red gasoline truck dashed into the field to replenish the fuel supply. At the Washington airport a passenger said to the young lady seated beside him:

"This plane sure does make time, doesn't it?"

It certainly does," she agreed, "but that red truck seems to keep right up with us!"

---

"Is it true that wild beasts in the jungle will not harm you if you carry a lighted torch?"

"It depends," answered the big-time hunter, "upon how fast you carry it."

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Car Owner—"I've had this car a whole year and haven't paid a cent for repair or upkeep since I bought it."

Friend—"So the man at the service station was telling me."

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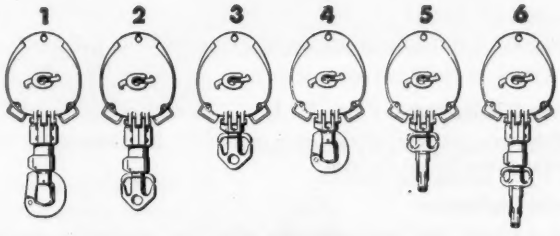


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# Rocky Mountain NEWS

**Colorado—Idaho—Montana—New Mexico—Utah—Wyoming—Western Canada**

## Wyoming

Plymouth Oil Co. has found some gas shows in the J sand at the No. 1 Tremain, c nw sw 9-19n-60w, Goshen County. Operator is drilling around 7300 feet in the Sundance. The well will go to 7500 feet.

The California Co. found shows at the No. 1 Unit, ne sw se 9-45n-92w, Washakie County. This is a scheduled Tensleep test. The shows were found in cores.

A gas well in Sublette County has been completed by the California Co. It is the No. 1 Birch Creek Unit, sw ne nw 14-27n-113w. It flowed at the rate of 1,400,000 cubic feet per day on choke at completion in the Bear River formation.

Carter Oil Co. is drilling a wildcat in Lincoln County, the No. 1 Govt., nw ne 26-26n-112w. It is southeast of the East LaBarge Unit.

Interest in the Powder River Basin Parkman play has been revived with reports indicating 300 feet of clean oil at Farmer's Union Central Exchange No. 1 Govt. Ferguson in the Dead Horse Creek area of Campbell County. The reports have not been confirmed at this writing. Four miles east of Tennessee Gas Transmission's No. I Govt. Cole, a Parkman prospect which failed to show commercial possibilities, the Farmer's Union test is located in c se se 13-49n-76w. The top of the Parkman was called at 6967 feet.

In the Big Horn Basin, Sohio Petroleum Co. is continuing to test at the No. 3 Alkali Anticline Unit, a dual Phosphoria-Tensleep prospect. With Tensleep production assured, Sohio acidized perforations in the lower Phosphoria section. Officials of the company have expressed belief that the Phosphoria formation will prove even more productive than the Tensleep, which swabbed 11 barrels of oil per hour on early production tests.

## Colorado

Knapp Uranium Development Co. obtained a flow of 2,500,000 cubic feet of gas per day from the No. 1 Fed-


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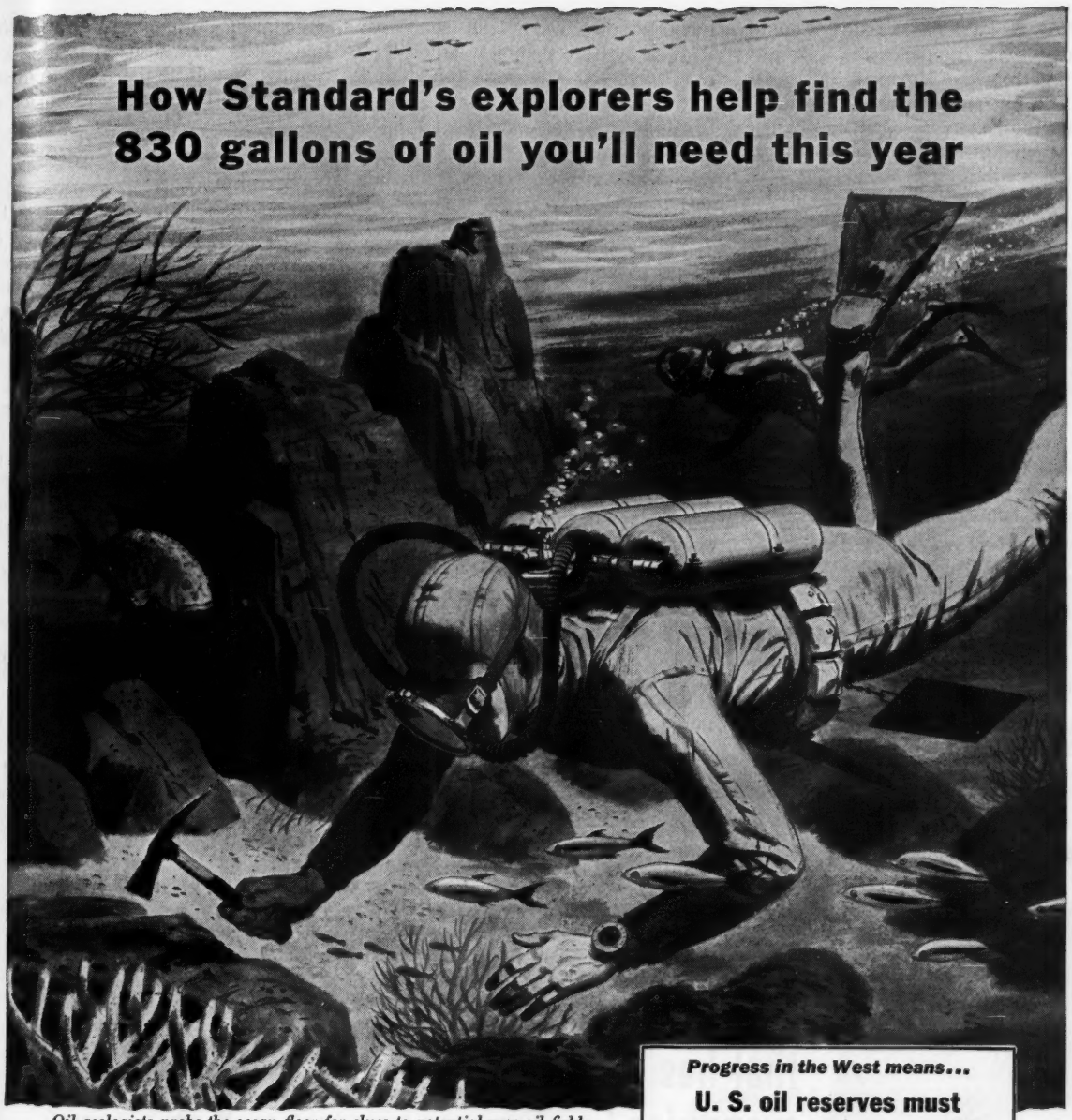

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eral, se sw sw 1-2n-3w, Mesa County. Operator has completed the well, producing from the Morrison Salt Wash at 2385-2395 feet. The well is believed to have an absolute open flow potential of five to eight million cubic feet of gas per day.

In Moffat County, Sun Oil has found further shows in cores at the No. 1 Munoz-State, c nw nw 32-7n-95w. The well, which is being drilled on a farmout from Seaboard Oil, will test the Weber.

Wytex Oil and Jack Ladmer encountered a flow of 112 barrels of oil per day at the No. 1 Yeamans, c se sw 15-2n-52w, Washington County. The test was in the D sand at the interval 4593-4607 feet.

After drilling to 7000 feet total depth, El Paso Natural Gas has abandoned the No. 1 Mariana Wash, c sw nw 30-33n-19w, Montezuma County.

Cities Service abandoned the No. 1 Kahler, c sw ne 9-35n-41w, Baca County. It was drilled to 4758 feet total depth. Some gas shows were found.

## Montana

McAlester Fuel is coring below 6100 feet at the No. 1-A State, c nw nw 16-11n-33w, Rosebud County. Operator found muddy water and some gas show in a drill stem test at 6060-69 feet. Slight oil stain was found in a core at 6061-69 feet.

Amerada Petroleum's No. 1 Loucks in Sheridan County flowed 312 barrels of oil on completion. Production also included 34 barrels of water per day. The well is in c ne sw 35-36n-52e and is in the Outlook area. The recovery was from the Red River, which is equivalent to the Ordovician.

Amerada recovered substantial amounts of oil in two tests at the No. 1 Ruegsegger, c ne ne 24-36n-52e. A test at 9100-16 feet yielded 88 barrels of oil and 52 barrels of water in six and one half hours. In a test at 9067-91 feet the flow was 406 barrels of oil and 205 barrels of salt water over a period of 27½ hours. Various size chokes were used for the test.

Gulf Oil and Pan American Petroleum are within about a thousand feet of the Madison, expected at 13,000 feet, at the No. 1 Blackfeet-Federal, c se se 14-37n-15w, Glacier County.

Champlin Oil and Refining and Republic Natural Gas will drill an Otter test at the No. 1 Hall-Tupper, se sw sw 2-10n-28e, Musselshell County. It will go to 4400 feet.

Tennison Drilling will drill a 4400-foot Otter test also in Musselshell County. It will be the No. 1-A State, c sw se 16-10n-29e, an extension of the Melstone field.

## Nebraska

Murfin and Sutton recovered 150 feet of oil and 35 feet of mud-cut oil in a two-hour test at the No. 1 Nelson, c nw sw 31-14n-53w, Kimball County. The test was taken at 5867-81 feet in the J sand. Operator has installed pump.

Two and a half miles southeast of the Vedene field in Banner County, the No. 1 Grubbs, c sw sw 13-17n-56w, has been completed on pump for 200 barrels of oil per day from the J sand. Operators are Colorado Century Production, Sam Gary, and Strain Drilling.

Lowell J. Williamson obtained a pump gauge of 187 barrels of oil per day on completion of the No. 1 Smith, c se se 19-17n-56w, Banner County. Production is from the D sand, which was topped at 6607 feet.

In Scotts Bluff County, Shell Oil abandoned the No. 1 Dixon, c nw sw 29-23n-54w. The well was drilled to 4861 feet total depth. Oil stain was


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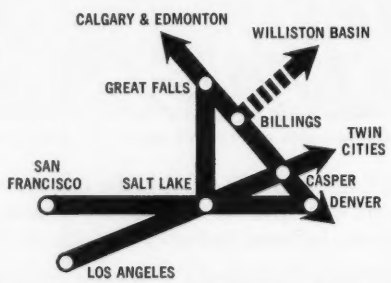


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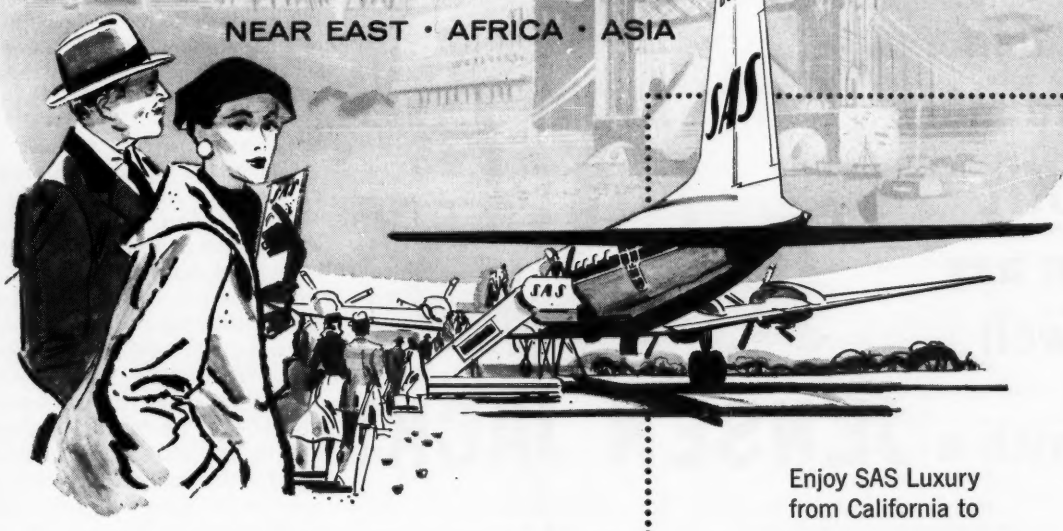


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found in a core at 4532-72 feet but a subsequent drill stem test recovered mud and water.

McDaniel Drilling abandoned the No. 1 Neiman-Scheffert, c nw nw 18-17n-51w, in Morrill County, at 5322 feet total depth.

---

## North Dakota

Carter Oil Co. has announced plans for two wildcats in Bottineau County on the east flank of the Williston Basin. Carter will be the operator but Phillips Petroleum has an equal interest in the venture. The Oscar Fossum No. 1, located in ne ne 31-162n-81w, is about 20 miles north of Minot, 15 miles south of the Canadian border and 12 miles southwest of nearest production in the Kuroki pool. It will be drilled approximately 4400 feet and test the Lodgepole, Charles and Mission Canyon formations. Carter also will drill the George Blowers No. 1 in se sw 20-160n-83w, 35 miles north and west of Minot and 26 miles southwest of production in the Kuroki pool. It will be drilled to 5200 feet and test the upper Lodgepole, Charles and Mission Canyon formations.

Pan American Petroleum has found a new pay zone in the Antelope field of McKenzie County. Operator recovered a flow of 640 barrels of oil per day from the Sanish sand of the Mississippian at the No. 1 Lewis, w ½ se se 7-52n-94w at the interval 10,273-97 feet and through restricted choke. The field has previously produced from the Madison.

In Williams County, Amerada Petroleum encountered a flow of 147 barrels of oil and 68 barrels of water per day at the No. 1 Iverson-Nelson, nw se ne 2-155n-96w. Production was obtained from the Silurian, topped at 11,440 feet.

The No. 1 Salo being drilled by Lowell J. Williamson and Calvert Drilling in Mountrail County will be carried down to the Lodgepole. A test of the Mission Canyon encountered salt water. The well is in c ne sw 19-157n-90w.

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## Utah

Continental Oil Co. has announced discovery of a new oil field on the Navajo Indian reservation in the southeastern part of the state. The well is the East Aneth Navajo No. 1, San Juan County. It flowed an estimated 304 barrels of 39.5 gravity oil per day, with no water, through open tubing on a drill stem test at 5930-952 feet in the Aneth formation. The well was drilled to 7637 feet. The nearest producing oil well is three miles west of the discovery. Continental has a block of 2520 acres in the area, which is southeast of the town of Blanding. The well is located in c sw se 21-40s-25e. It has been shut in for storage.

Gulf Oil appears to have a small producer at the No. 1 Gulf-Aztec-Montezuma-Federal in San Juan County and has put the well on pump. Thirty-two barrels of oil and 104 barrels of salt water were recovered in an 11-hour test of the interval 5828-44. It is located in c ne nw 25-37s-23e.

In an area where another operator found gas production two years ago, Pan American Petroleum is drilling the No. 4 Coalbed Canyon Unit, c ne ne 34-35s-25e, San Juan County. Gulf Oil drilled a gas and distillate producer in 15-35s-25e in 1955 but the well was suspended when production failed to hold up.

Texota Oil has staked location for the No. 1 Utah-Federal-I, se nw se 10-39s-25e, San Juan County. It is


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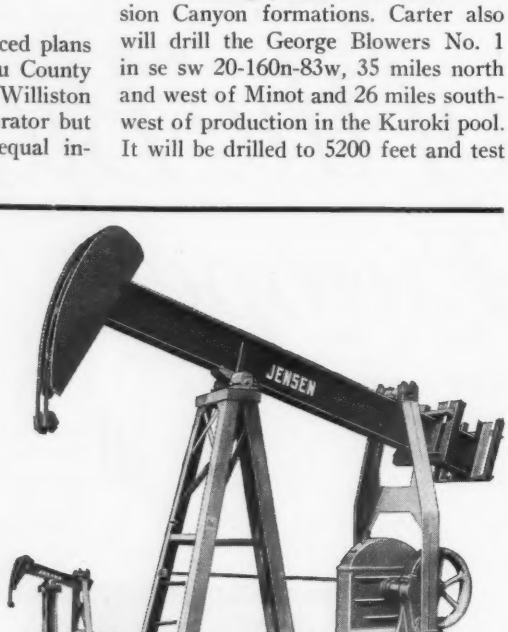


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## Arizona

Kerr-McGee Oil Industries has announced locations for three additional wildcats in Apache County after finding a small quantity of helium in one well recently completed. Whether all the wells will be drilled, however, may rest with results at the second wildcat of the series. Kerr-McGee found inert gas at the No. 1 State, ne nw se 4-19n-26e. Ninety per cent of this was nitrogen and about eight per cent helium. It is the helium which the operator is seeking but the proportion in this well is regarded as non-commercial. The well was drilled to 1198 feet total depth. The operator is currently drilling the No. 2 Fee, ne nw nw 35-20n-26e. The other wells in the series for which locations have been made are the No. 3 State, ne nw se 4-19n-26e, and the No. 4 State, nw sw ne 32-20n-26e. In addition to the nitrogen and helium in the No. 1 State, there was a small quantity of carbon dioxide and other gases.

## New Mexico

Gulf Oil recovered a flow of 222 barrels of oil per day in a 24-hour test at the No. 1 Western Federal, nw se ne 18-26n-11w, San Juan County. Production through choke.

Southern Union Gas will drill a confirmation of a Gallup discovery in Rio Arriba County. The new test is the No. 1 Dunn, nw se se 9-23n-7w. It is a half mile west of the No. 1 Dunn drilled by Harrell Budd.

Northwest Production has found gas in commercial quantities from two zones at the C-2-29, se nw sw 29-26n-4w, Rio Arriba County. Production of 871,000 cubic feet of gas per day was obtained from the Dakota and 1,377,000 cubic feet per day from the Mesaverde.

Standard Oil of Texas is running casing at the No. 1 Federal 1-27, ne sw se 27-24n-7w, and is continuing testing. The well is three miles north of Harrell Budd's Gallup discovery.

## Western Canada

Pacific Petroleum, which is testing a number of completed gas wells in the Fort St. John field, has come up with a big pay at the No. 65 on lsd 6-16-83-18w6. The well is rated for 137,000,000 cubic feet of gas per day from the D section of the Triassic formation, based on open flow. Top of the section was logged at 4688 feet. The field is in northeastern British Columbia.

Imperial Oil Ltd. has recovered 850 feet of oil in a test of the Imperial-Canadian Superior-Browning 3-25 in southeastern Saskatchewan. Recovery was from the Mission Canyon. The operator conducted a series of six drill stem tests, with varying amounts of oil recovered. The recovery on the test mentioned included 50 feet of oil cut mud and 90 feet of salt water. The well is on lsd 3-35-6-5w2.

Another Mission Canyon success for Imperial Oil is the 16-21 Ingoldsby, which is located on lsd 16, 21-4-31w, also in southeastern Saskatchewan. Drill stem tests of the formation made substantial recovery of oil.

## Goodin Elected

George Goodin of Casper, Wyo., is the new chairman of the Rocky Mountain District of the American Petroleum Institute's Division of Production. Goodin, who is one of four brothers who operate Petroleum Information, an oil and gas reporting service, was elected at the annual spring meeting. He succeeds Wayne E. Glenn, Continental Oil Co., Denver. Glenn was elected chairman of the district advisory committee.

District vice-chairmen elected to serve in 1957-58 were as follows: Claude E. Peavy, Britalta Petroleums, Ltd., Calgary, Alberta, Canada, Vice-Chairman for Canada; J. J. Oldham, R. L. Manning Co., Casper, Wyo., Vice-Chairman for Wyoming; Hugh Palmer, Cardinal Drilling Co., Bismarck, N. Dakota, Vice-Chairman for North Dakota; O. L. Odale, Shell Oil Co., Denver, Colo., Vice-Chairman for Colorado; L. A. Lindstrom, Ohio Oil Co., Sidney, Neb., Vice-Chairman for Nebraska; Auby Rowe, Jr., McAlester Fuel Co., Billings, Mont., Vice-Chairman for Montana; and Warren L. Taylor, El Paso Natural Gas Co., Salt Lake City, Vice Chairman for Utah.

Taylor, who also served in 1956-57, was the only officer to be re-elected.

Ernie Howell, Northern Mud Co., Billings, Mont., was elected Secretary-Treasurer for the next year.

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## Dual Completion Set-Ups Used by California Company

"Two for one" has always been an eye-catching enticement to the thrifty housewife looking for bargains.

In this case, it is paying dividends for an enterprising crude oil producing concern.

Equally important, the A. J. West Oil Company of McKittrick, California, is using a pair of dual completion set-ups to realize a greater portion of the oil reserves from the Belgian Anticline Annex in Little Santa Maria Valley, near Taft.

Two holes on this lease, less than two hundred yards from each other, are being pumped from two different depths by four Bethlehem units. "T. W. A. Fee 11" has a Bethlehem 320-D driven by a Waukesha 195GKU. Tubing is 2⅞-inches D.D.E.V., with a 2¼-inch pump and a 2-inch plunger. This side of the combined well pumps 500 B/D gross, 75 bbls/D net from 3380 feet.

Companion unit on this one well uses a Bethlehem 228-D pumping unit, powered by a Waukesha 6BZU. Tubing is 2⅜-inch O. D., Hydril flush joint anchored in Baker Parallel Anchor at 3290-foot level and pumps 22 B/D net oil, no water.

Both strings of tubing are anchored under five thousand pounds of tension. Dual completion rig on "sister" set-up, one location east, is equipped in similar fashion, making these installations the only such in California and one of the very few in the country.

**POWER FOR TWINS, a Waukesha 195GKU is checked at the site by Gordon Wilmoskey, Bethlehem Supply Manager at Taft (California) store. Units are dual completion set-ups by A. J. West Oil Company, McKittrick, California. Engine is a Waukesha 6BZU.**

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## BS&B Introduces New Perfection Prefabricated Steel Buildings

Black, Sivalls & Bryson, Inc., manufacturers of oilfield equipment, control valves and other steel products, announce a new line of BS&B PERFECTION prefabricated steel buildings for use on the lease, at refineries and petrochemical plants, and for general warehousing, according to William C. McCool, Vice President and General Manager of the Steel Products Division.

A sturdy truss-type building with panel sidewalls and ends, the new PERFECTION is available in a variety of standard sizes and styles in regular increments up to 100 feet in width, 20 feet in height and unlimited lengths. Prefabricated wall panels, with door and window frames installed during fabrication, permit quick erection of PERFECTION buildings. The roof is the only area requiring sheeting in the field.

BS&B PERFECTION steel buildings are available with industrial windows, doors, translucent roof panels, insulation, guttering, ventilators and louvres. Partitions, cranes and monorails are also available upon special request.

Other BS&B products include bolted and welded steel tanks, wood tanks, separators, treaters, heaters, gas pro-

cessing equipment, control valves, and PHANTO-MATIC lease systems for complete automation of the lease. BS&B has a 64-year background of experience in fabricating equipment for the oilfields.

For further information on PERFECTION steel buildings, write to Black, Sivalls & Bryson, Inc., Product Information Department, 7500 E. 12th Street, Kansas City 26, Missouri.

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## BS&B Introduces New Ammonia Absorption Refrigeration Unit

Black, Sivalls & Bryson, Inc., manufacturers of COLD-FRAC low temperature separation systems, dehydrators, desulfurizers, gasoline plants, and other oilfield processing and storage equipment, introduces the new BS&B Ammonia Absorption Refrigeration Unit for gas processing that requires temperatures below ordinary atmospheric level—anywhere from lease through central plant to refinery.

The BS&B Ammonia Absorption Refrigeration Unit can be used for hydrocarbon dewpoint control in pipelines, to increase hydrocarbon recovery with low temperature separation units where there is no available pressure expansion, and to increase gasoline plant hydrocarbon recovery up to 100% by chilling the absorption oil.

Designed and built for heavy duty and continuous operation, the BS&B Ammonia Absorption Refrigeration Unit provides trouble free, completely automatic unattended operation under widely fluctuating loads with minimum maintenance expense. The power input required is proportional to load imposed on the unit, and capacity decreases only slightly with a decrease in operation temperature. With no high speed reciprocating machinery to mount, the unit is vibration-free. The elimination of oil lubrication eliminates the oil-refrigeration problem. The unit is adaptable to any set of working conditions, and sudden load changes will not throw the unit off the line.

Standard BS&B Ammonia Absorption Refrigeration Units are readily skid-mounted except for the ammonia reboiler which is on a single skid. There are eleven available sizes with capacities ranging from 8 to 200 tons at -10° F. chiller temperature. Larger units are available upon special request.

For further information on the BS&B Ammonia Absorption Refrigeration Unit, write to Black, Sivalls & Bryson, Inc., Product Information Department, 7500 E. 12th Street, Kansas City 26, Missouri.

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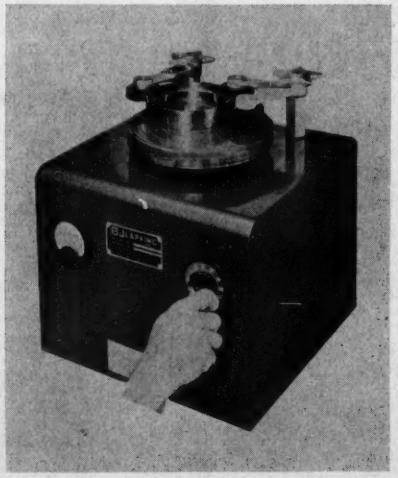
## New Low-Cost Lapping Machine Announced by Byron Jackson

The Lap-King, a new low-priced precision lapping machine, is now being marketed by Byron Jackson Pumps, Inc.

The Lap-King is a 15"x14½", bench-type portable lapping machine capable of producing lapped surfaces accurate to 11.6 millionths of an inch. The machine, fully equipped with three lapping plates, lapping compound and lubricant, is priced under $800. Due to the simplicity of procedure, any mechanic or machinist can operate the Lap-King at full efficiency. Quality control is easily maintained because the BJ Lap-King is specially designed to relap its own plates, one against the other, after a normal job run .This assures consistent optically-flat lapping plates for automatic accuracy of lapped work. An hour meter records the exact amount of lapping time on each plate. An automatic timer, operating in a one hour cycle, allows job time control.

H. E. Tracy, Product Sales Manager for BJ Mechanical Seals, states "It has been our observation that many refineries, pipeline maintenance shops, power plants and other people engaged in repair work or manufacture in small quantities cannot justify expensive machines for lapping work. The Lap-King is a low-cost precision lapping machine that has been designed to meet the economic demands in both initial cost and operation of all shops. This machine is an ideal maintenance tool for users of mechanical seals . . . in fact, we use it in our own BJ Mechanical Seal manufacture and maintenance. It has equal application however to general industrial uses where low-cost lapping is desirable."



The BJ Lap-King is powered by ¼ HP motor operating on 110 volt, ac/dc power. It weighs only 165 lbs., making it easily portable from site to site.

Additional information, including an illustrated brochure, is available from Byron Jackson Pumps, Inc., P. O. Box 2017, Terminal Annex, Los Angeles 54, California.

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## "Welding For Nuclear Pumping Applications"

"Welding for Nuclear Pumping Applications," an 11-page illustrated report by F. R. Drahos of the Byron Jackson Division of Borg-Warner Corp. is now available without charge. This report summarizes a presentation made to the Tenth Western Metal Congress at Los Angeles in March.

Welding requirements for nuclear service are outlined and 15 specific "do's and don'ts" for nuclear welding are prescribed. Photographs and drawings illustrate various nuclear pump welding designs and welding set-ups.

Available from Byron Jackson Division, Borg-Warner Corporation, P. O. Box 2017A, Terminal Annex, Los Angeles 54, California.

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## United Cuban Lists New Cuban Producer

United Cuban Oil, Inc., headed by Ted Jones of Los Angeles, reports completion of its initial offset well to its Cuban Juanita No. 1 on the Quadreny Primero concession, some 20 miles east of Havana, Cuba, on the north shore. The well came in flowing at the rate of 50 barrels of 11 gravity oil daily from the interval perforated from 2090 to 2150 feet, through 5½-inch casing. Known as Cuban Juanita No. 2, the well was drilled to a total of 7518 feet with encouraging showings of oil reported in several zones encountered to bottom.

# LAUGH THIS OFF!!

A puny little fellow was telling his friends at the office about the mail order course he was taking for muscle building.

"I've taken it for over two years," he boasted. "Every week the mailman brings me heavier and heavier equipment."

The men looked skeptical.
"Well," said one, "you certainly don't look any huskier now than you did two years ago."

"No," said the little man, "but you ought to see my mailman!"

---

"Oh no," groaned the elderly diner, "total paralysis of the left leg. I've feared it for years."

"If it will relieve your mind any," whispered the young thing on his left, "it's my leg you've been feeling."

Patient — "Will I know anything when I come out of the ether?"

Nurse—"Well, that's expecting an awful lot from an anesthetic."

---

Two opposing political candidates were arguing. "There are hundreds of ways to make money," one declared, "but only one honest way."

"And what's that?" the other asked.

"Ah-ha!" the first answered. "I thought you wouldn't know."

---

Just about the time you teach your kids you can't put more in a container than it can hold along comes some woman in slacks.

---

Phil—"How did George go through his rich uncle's inheritance so fast?"

Bill—"Well, he spent a good bit of it on wine, women and song. The rest he squandered."

"What shall I say about the two peroxide blondes who made such a fuss at the game last night?" inquired the news reporter.

Editor—"Why, just say that the 'bleachers' went wild."

---

A lonely chick taking a look around the electric incubator of unhatched eggs—"Well, it looks as if I'll be an only child. Mother's blown a fuse."

---

The old mountaineer was sitting in his favorite cane-backed rocker on the porch of his cabin, slowly rocking east and west. Nearby sat his 42-year-old son, rocking north and south.

"Son," drawled the old man, "it's about time you learned not t'wear yerself out thataway. Rock the way the board runs, and save yer stren'th."


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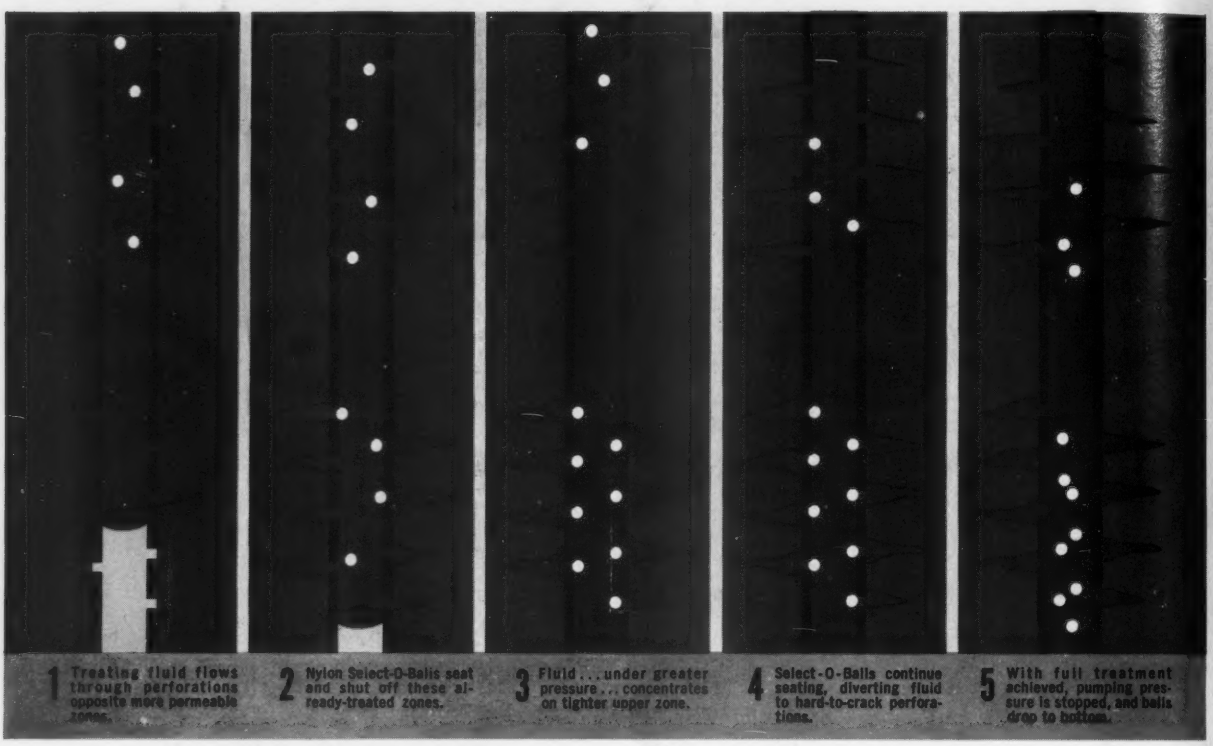
1 Treating fluid flows through perforations opposite more permeable zones.
2 Nylon Select-O-Balls seat and shut off these already-treated zones.
3 Fluid . . . under greater pressure . . . concentrates on tighter upper zone.
4 Select-O-Balls continue seating, diverting fluid to hard-to-crack perforations.
5 With full treatment achieved, pumping pressure is stopped, and balls drop to bottom.

**Select-O-Ball Service opens drainage channels that can not be penetrated otherwise . . . provides maximum injection rate with minimum equipment.**

**Save up to 50%!** Select-O-Ball Service allows one-stage treatment—saves rig time, saves multi-stage treatment costs, eliminates drill-out operations and cost of packers and bridging plugs.

**Jet or bullet perforated** casing may be treated—in open casing, down the annulus, or through open-ended-tubing.

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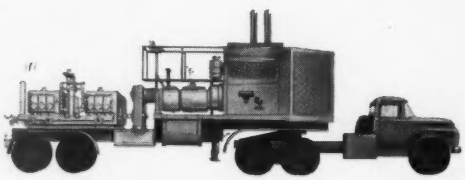

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